

CD8a Monoclonal Antibody (53-6.7), PE-
Cyanine7, eBioscience™

Catalog Number25-0081-81

Product data sheet

Details	
Size	50 µg
Host/Isotope	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Mouse
Published species	Human, Mouse, Not Applicable
Tested Applications	
Flow Cytometry (Flow)	0.5 µg/test
Published Applications	
Flow Cytometry (Flow)	See 164 publications below
Functional Assay (FN)	See 3 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Description: The 53-6.7 monoclonal antibody reacts with the mouse CD8a molecule. CD8a is an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha beta) or as a homodimer (CD8 alpha alpha). A majority of thymocytes and a subpopulation of mature alpha beta TCR T cells express CD8 alpha beta while gamma delta TCR T cells, a subpopulation of intestinal intraepithelial lymphocytes (IELs) and dendritic cells express CD8 alpha alpha. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T cell development and activation of mature T cells. Applications Reported: The 53-6.7 antibody has been reported for use in flow cytometric analysis. Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light. Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically. Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

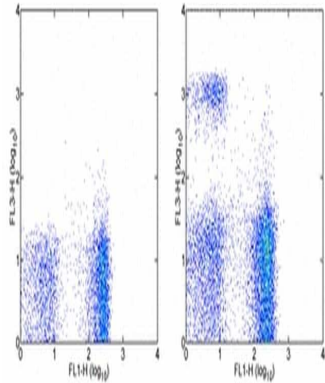
Cluster of differentiation 8 (CD8), a type I transmembrane glycoprotein of the immunoglobulin family of receptors, plays an integral role in signal transduction, and T cell differentiation and activation. CD8 is predominantly expressed on T cells as a disulfide-linked heterodimer of CD8alpha and CD8beta, where it functions as a co-receptor, along with T cell receptor (TCR), for major histocompatibility complex class I (MHC-I) molecules; whereas its counterpart, CD4, acts as a co-receptor for MHC-II molecules. CD8 exists on the cell surface, where the CD8alpha chain is essential for binding to MHC-I. CD8 is also expressed on a subset of T cells, NK cells, monocytes and dendritic cells as disulfide-linked homodimers of CD8alpha. Ligation of MHC-I/peptide complexes presented by antigen-presenting cells (APCs), triggers the recruitment of lymphocyte-specific protein tyrosine kinase (Lck), which leads to lymphokine production, motility and cytotoxic T lymphocyte (CTL) activation. Once activated, CTLs play a crucial role in the clearance of pathogens and tumor cells. Differentiation of naive CD8+ T cells into CTLs is strongly enhanced by IL-2, IL-12 and TGF-beta1.

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CD8a Antibody (25-0081-81) in Flow

Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.25 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.25 µg of Anti-Mouse CD8a PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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164 Flow Cytometry References

Species / Dilution	Summary
Mouse / 1:100	25-0081 was used in Flow cytometry/Cell sorting to investigate the interaction between infected host and Toxoplasma gondii strains in endemic regions, showing that secondary infection correlates with the ROP5/ROP18 allele combinations.
	mBio (2015; 6:) "Toxoplasma gondii superinfection and virulence during secondary infection correlate with the exact ROP5 /ROP18 allelic combination." Author(s):Jensen KD,Camejo A,Melo MB,Cordeiro C,Julien L,Grotenbreg GM,Frickel EM,Ploegh HL,Young L,Saeij JP PubMed Article URL:http://dx.doi.org/10.1128/mBio.02280-14
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to conclude that primitive hematopoietic cells in bone marrow enter proliferation earlier than leukemic cells after chemotherapy, and gradually lose their regenerative capacity partly by senescence due to accelerated cycling.
	Journal of translational medicine (2015; 13:) "Excessive proliferation and impaired function of primitive hematopoietic cells in bone marrow due to senescence post chemotherapy in a T cell acute lymphoblastic leukemia model." Author(s):Jiang C,Hu X,Wang L,Cheng H,Lin Y,Pang Y,Yuan W,Cheng T,Wang J PubMed Article URL:http://dx.doi.org/10.1186/s12967-015-0543-8
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to investigate the effect of ferritin H deletion on lymphocytes, showing that it reduces B and T lymphocyte populations.
	PloS one (2015; 9:) "Conditional deletion of ferritin h in mice reduces B and T lymphocyte populations." Author(s):Vanoaica L,Richman L,Jaworski M,Darshan D,Luther SA,Kühn LC PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0089270
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to determine whether haematopoietic stem cell ageing depends on bone marrow innervation by the sympathetic nervous system.
	Nature medicine (2018; 24: 782) "Adrenergic nerve degeneration in bone marrow drives aging of the hematopoietic stem cell niche." Author(s):Maryanovich M,Zahalka AH,Pierce H,Pinho S,Nakahara F,Asada N,Wei Q,Wang X,Ciero P,Xu J,Leftin A,Frenette PS PubMed Article URL:http://dx.doi.org/10.1038/s41591-018-0030-x
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to explore the effects of the costimulation of GalCer and TLR agonists on the immune system and cytokine production.
	Scientific reports (2014; 3:) "Toll-like receptor agonists and alpha-galactosylceramide synergistically enhance the production of interferon-gamma in murine splenocytes." Author(s):Ando T,Ito H,Ohtaki H,Seishima M PubMed Article URL:http://dx.doi.org/10.1038/srep02559
Mouse / 1:100	25-0081 was used in Flow cytometry/Cell sorting to perform an unbiased interrogation of tumor mesenchymal cells, delineating the co-existence of distinct subsets of cancer-associated fibroblasts (CAFs) in the microenvironment of murine carcinomas, each endowed with unique phenotypic features and functions.
	Nature communications (2020; 11:) "TGF-blockade uncovers stromal plasticity in tumors by revealing the existence of a subset of interferon-licensed fibroblasts." Author(s):Grauel AL,Nguyen B,Ruddy D,Laszewski T,Schwartz S,Chang J,Chen J,Piquet M,Pelletier M,Yan Z,Kirkpatrick ND,Wu J,deWeck A,Riester M,Hims M,Geyer FC,Wagner J,MacIsaac K,Deeds J,Diwanji R,Jayaraman P,Yu Y,Simmons Q,Weng S,Raza A,Minie B,Dostalek M,Chikkegowda P,Ruda V,Iartchouk O,Chen N,Thierry R,Zhou J,Pruteanu-Malinici I,Fabre C,Engelman JA,Dranoff G,Cremasco V PubMed Article URL:http://dx.doi.org/10.1038/s41467-020-19920-5
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to investigate the contribution of NF-B to IL-17 production by T cells, showing that RelA and RelB in distinct thymocyte populations control lymphotoxin-dependent IL-17 production.
	Immunity (2011; 34: 364) "RelA and RelB transcription factors in distinct thymocyte populations control lymphotoxin-dependent interleukin-17 production in T cells." Author(s):Powolny-Budnicka I,Riemann M,Tänzer S,Schmid RM,HehlGans T,Weih F PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2011.02.019

	25-0081 was used in Flow cytometry/Cell sorting to indicate that a terminally differentiated cell type derived from HSCs contributes to the HSC niche, directly regulating HSC behavior.
Mouse / 1:100	<p>Nature medicine (2014; 20: 1315)</p> <p>"Megakaryocytes regulate hematopoietic stem cell quiescence through CXCL4 secretion."</p> <p>Author(s):Bruns I,Lucas D,Pinho S,Ahmed J,Lambert MP,Kunisaki Y,Scheiermann C,Schiff L,Poncz M,Bergman A, Frenette PS</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/nm.3707</p>
	25-0081-82 was used in Flow Cytometry to provide insight into the transcriptional regulation of the niche with implications for stem cell-based therapies.
Mouse / 1:100	<p>Nature cell biology (2019; 21: 560)</p> <p>"Engineering a haematopoietic stem cell niche by revitalizing mesenchymal stromal cells."</p> <p>Author(s):Nakahara F,Borger DK,Wei Q,Pinho S,Maryanovich M,Zahalka AH,Suzuki M,Cruz CD,Wang Z,Xu C,Boulais PE, Ma'ayan A,Greally JM,Frenette PS</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41556-019-0308-3</p>
	25-0081 was used in Flow cytometry/Cell sorting to show that in experimental autoimmune encephalomyelitis Th17 cells specifically induced ectopic lymphoid follicles in the central nervous system.
Mouse / Not Cited	<p>Immunity (2011; 35: 986)</p> <p>"Th17 cells induce ectopic lymphoid follicles in central nervous system tissue inflammation."</p> <p>Author(s):Peters A,Pitcher LA,Sullivan JM,Mitsdoerffer M,Acton SE,Franz B,Wucherpennig K,Turley S,Carroll MC,Sobel RA,Bettelli E,Kuchroo VK</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2011.10.015</p>
	25-0081 was used in Flow cytometry/Cell sorting to tested whether peri-transplant costimulation blockade could prolong VCA survival and required donor bone-marrow cells, given that bone-marrow might promote graft immunogenicity or graft-versus-host disease.
Mouse / Not Cited	<p>Scientific reports (2020; 10:)</p> <p>"Donor bone-marrow CXCR4+ Foxp3+ T-regulatory cells are essential for costimulation blockade-induced long-term survival of murine limb transplants."</p> <p>Author(s):Wang L,Wang Z,Han R,Samanta A,Ge G,Levin LS,Levine MH,Hancock WW</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41598-020-66139-x</p>
	25-0081 was used in Flow cytometry/Cell sorting to evaluate a novel staining method with the potential to monitor the responses of various Treg subsets to IL-2 therapy.
Mouse / Not Cited	<p>Oncotarget (2015; 6: 43255)</p> <p>"Validation of a multicolor staining to monitor phosphoSTAT5 levels in regulatory T-cell subsets."</p> <p>Author(s):Ehx G,Hannon M,Beguin Y,Humblet-Baron S,Baron F</p> <p>PubMed Article URL:http://dx.doi.org/10.18632/oncotarget.6486</p>
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that the ARNT-STAT3 axis is a critical regulator of TCR (+)CD8(+) intestinal intraepithelial T-cell development and differentiation.
Mouse / Not Cited	<p>Nature communications (2014; 4:)</p> <p>"The ARNT-STAT3 axis regulates the differentiation of intestinal intraepithelial TCRC8 cells."</p> <p>Author(s):Nakahima K,Maekawa Y,Kataoka K,Ishifune C,Nishida J,Arimochi H,Kitamura A,Yoshimoto T,Tomita S,Nagahiro S,Yasutomo K</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/ncomms3112</p>
	25-0081 was used in Flow cytometry/Cell sorting to identify that the preferential expansion of a novel population of CD11c (lo) non-plasmacytoid DCs is associated with the pro-regulatory environment of chronic intestinal helminth infection.
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 7098)</p> <p>"Chronic helminth infection promotes immune regulation in vivo through dominance of CD11cloCD103- dendritic cells."</p> <p>Author(s):Smith KA,Hochweller K,Hämmerling GJ,Boon L,MacDonald AS,Maizels RM</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1003636</p>
	25-0081 was used in Flow cytometry/Cell sorting to find that thymoproteasomes are essential for positive selection but that the subsequent change in peptide repertoire in the medulla is also crucial for thymic selection and that 5t-derived peptide must be confined to the thymus to avoid autoimmunity in peripheral tissues.
Mouse / Not Cited	<p>Cell reports (2019; 26: 639)</p> <p>"Restricted Expression of the Thymoproteasome Is Required for Thymic Selection and Peripheral Homeostasis of CD8⁺ T Cells."</p> <p>Author(s):Tomaru U,Konno S,Miyajima S,Kimoto R,Onodera M,Kiuchi S,Murata S,Ishizu A,Kasahara M</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2018.12.078</p>

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	<p>25-0081-82 was used in Flow Cytometry to show that the deubiquitinase USP12 is commonly downregulated in the KrasG12D-driven mouse lung tumour and human non-small cell lung cancer owing to the activation of AKT-mTOR signalling.</p>
Mouse / 1:250	<p>Nature communications (2021; 12:) "USP12 downregulation orchestrates a protumourigenic microenvironment and enhances lung tumour resistance to PD-1 blockade." Author(s):Yang Z,Xu G,Wang B,Liu Y,Zhang L,Jing T,Tang M,Xu X,Jiao K,Xiang L,Fu Y,Tang D,Zhang X,Jin W,Zhuang G,Zhao X,Liu Y PubMed Article URL:http://dx.doi.org/10.1038/s41467-021-25032-5</p>
Mouse / Not Cited	<p>25-0081-82 was used in Flow Cytometry to monitor xeno-transplanted human neural precursor cells derived from induced pluripotent stem cells into the cerebellum and brainstem of mice and rats during prenatal development or the first postnatal week.</p>
Mouse / Not Cited	<p>Scientific reports (2021; 11:) "Immune-tolerance to human iPS-derived neural progenitors xenografted into the immature cerebellum is overridden by species-specific differences in differentiation timing." Author(s):Nato G,Corti A,Parmigiani E,Jachetti E,Lecis D,Colombo MP,Delia D,Buffo A,Magrassi L PubMed Article URL:http://dx.doi.org/10.1038/s41598-020-79502-9</p>
Mouse / Not Cited	<p>25-0081-82 was used in Flow Cytometry to study whether choline supplementation could influence the progression of hepatocellular carcinoma in a high-fat-diet-driven mouse model.</p>
Mouse / Not Cited	<p>The Journal of nutrition (2020; 150: 775) "Dietary Choline Supplementation Attenuates High-Fat-Diet-Induced Hepatocellular Carcinoma in Mice." Author(s):Brown AL,Conrad K,Allende DS,Gromovsky AD,Zhang R,Neumann CK,Owens AP,Tranter M,Helsley RN PubMed Article URL:http://dx.doi.org/10.1093/jn/nxz315</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to serve as a paradigm to understand the molecular basis of cell-type-specific non-replicative functions of the ubiquitous POLE complex.</p>
Mouse / Not Cited	<p>Cell reports (2020; 31:) "Lymphocyte-Specific Function of the DNA Polymerase Epsilon Subunit Pole3 Revealed by Neomorphic Alleles." Author(s):Siamishi I,Iwanami N,Clapes T,Trompouki E,O'Meara CP,Boehm T PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2020.107756</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate the involvement of Sgpl1 in models of disease, showing that partial deficiency confers protection in EAE.</p>
Mouse / Not Cited	<p>PloS one (2013; 8:) "Partial deficiency of sphingosine-1-phosphate lyase confers protection in experimental autoimmune encephalomyelitis." Author(s):Billich A,Baumruker T,Berli C,Bigaud M,Bruns C,Calzascia T,Isken A,Kinzel B,Loetscher E,Metzler B,Mueller M,Nuesslein-Hildesheim B,Kleylein-Sohn B PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0059630</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate dual TCR expression in T cells.</p>
Mouse / Not Cited	<p>PloS one (2016; 10:) "Bi-Allelic TCR or Recombination Enhances T Cell Development but Is Dispensable for Antigen Responses and Experimental Autoimmune Encephalomyelitis." Author(s):Schuldt NJ,Auger JL,Hogquist KA,Binstadt BA PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0145762</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate a functional link between nucleotide deficiency, replication stress, and two enzymes of the nucleoside salvage pathway: deoxycytidine kinase and thymidine kinase.</p>
Mouse / Not Cited	<p>The Journal of experimental medicine (2012; 209: 2215) "Nucleoside salvage pathway kinases regulate hematopoiesis by linking nucleotide metabolism with replication stress." Author(s):Austin WR,Armijo AL,Campbell DO,Singh AS,Hsieh T,Nathanson D,Herschman HR,Phelps ME,Witte ON,Czernin J,Radu CG PubMed Article URL:http://dx.doi.org/10.1084/jem.20121061</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to study the therapeutic potential of MOSPD2 in central nervous system disease.</p>
Mouse / Not Cited	<p>Clinical and experimental immunology (2020; 201: 105) "MOSPD2 is a therapeutic target for the treatment of CNS inflammation." Author(s):Yacov N,Kafri P,Salem Y,Propheta-Meirán O,Feldman B,Breitbart E,Mendel I PubMed Article URL:http://dx.doi.org/10.1111/cei.13448</p>

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	25-0081 was used in Flow cytometry/Cell sorting to demonstrate a role for aberrant chromatin accessibility in the regulation of MYC expression in T-cell lymphoblastic leukemia (T-ALL).
Mouse / Not Cited	<p>Cancer discovery (2019; 9: 1774)</p> <p>"GATA3-Controlled Nucleosome Eviction Drives <i>MYC</i> Enhancer Activity in T-cell Development and Leukemia."</p> <p>Author(s):Belver L,Yang AY,Albero R,Herranz D,Brundu FG,Quinn SA,Pérez-Durán P,Álvarez S,Gianni F,Rashkovan M,Gurung D,Rocha PP,Raviram R,Reglero C,Cortés JR,Cooke AJ,Wendorff AA,Cordó V,Meijerink JP,Rabadan R,Ferrando AA</p> <p>PubMed Article URL:http://dx.doi.org/10.1158/2159-8290.CD-19-0471</p>
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that sunitinib can create a favourable microenvironment depleted of MDSCs, and act synergistically with a cancer vaccine, resulting in enhanced levels of active tumor-antigen specific CTLs.
Mouse / Not Cited	<p>Oncoimmunology (2015; 4:)</p> <p>"Sunitinib depletes myeloid-derived suppressor cells and synergizes with a cancer vaccine to enhance antigen-specific immune responses and tumor eradication."</p> <p>Author(s):Draghiciu O,Nijman HW,Hoogeboom BN,Meijerhof T,Daemen T</p> <p>PubMed Article URL:http://dx.doi.org/10.4161/2162402X.2014.989764</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate the mechanisms behind the generation and function of NKR(+) T cells.</p> <p>Journal of immunology (Baltimore, Md. : 1950) (2012; 188: 4838)</p> <p>"Differential requirements for IRF-2 in generation of CD1d-independent T cells bearing NK cell receptors."</p> <p>Author(s):Notake T,Horisawa S,Sanjo H,Miyagawa S,Hida S,Taki S</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1200210</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to show that mice lacking the chemokine receptor Ccr1 have improved renal function and survival without affecting the tissue fungal burden.</p> <p>PLoS pathogens (2012; 8:)</p> <p>"Chemokine receptor Ccr1 drives neutrophil-mediated kidney immunopathology and mortality in invasive candidiasis."</p> <p>Author(s):Lionakis MS,Fischer BG,Lim JK,Swamydas M,Wan W,Richard Lee CC,Cohen JI,Scheinberg P,Gao JL,Murphy PM</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1002865</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to provide a framework to interrogate intra-tumour CD8(+) T-cell PD1 and immune PDL1 levels and response in human cancer.</p> <p>Cancer research (2015; 75: 3800)</p> <p>"A Threshold Level of Intratumor CD8+ T-cell PD1 Expression Dictates Therapeutic Response to Anti-PD1."</p> <p>Author(s):Ngiow SF,Young A,Jacquelot N,Yamazaki T,Enot D,Zitvogel L,Smyth MJ</p> <p>PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-15-1082</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to demonstrate how CARM1 is a key epigenetic regulator of hematopoiesis that affects multiple lineages at various stages of differentiation.</p> <p>Journal of immunology (Baltimore, Md. : 1950) (2013; 190: 597)</p> <p>"Coactivator-associated arginine methyltransferase 1 regulates fetal hematopoiesis and thymocyte development."</p> <p>Author(s):Li J,Zhao Z,Carter C,Ehrlich LI,Bedford MT,Richie ER</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1102513</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to conclude that mTOR signalling plays critical but diverse roles in early and late phases of antibody responses and plasma cell differentiation.</p> <p>The Journal of clinical investigation (2016; 126: 4250)</p> <p>"mTOR has distinct functions in generating versus sustaining humoral immunity."</p> <p>Author(s):Jones DD,Gaudette BT,Wilmore JR,Chernova I,Bortnick A,Weiss BM,Allman D</p> <p>PubMed Article URL:http://dx.doi.org/10.1172/JCI86504</p>
Mouse / Not Cited	<p>25-0081-82 was used in Flow Cytometry to demonstrate the involvement of diet-induced stress on hematopoietic stem cell self-renewal.</p> <p>Cell stem cell (2018; 22: 713)</p> <p>"Spred1 Safeguards Hematopoietic Homeostasis against Diet-Induced Systemic Stress."</p> <p>Author(s):Tadokoro Y,Hoshii T,Yamazaki S,Eto K,Ema H,Kobayashi M,Ueno M,Ohta K,Arai Y,Hara E,Harada K,Oshima M,Oshima H,Arai F,Yoshimura A,Nakauchi H,Hirao A</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.stem.2018.04.002</p>

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	25-0081-82 was used in Flow Cytometry to investigate whether soluble antigens obtained from <i>Caenorhabditis elegans</i> can confer protection against inflammatory disease.
Mouse / Not Cited	Journal of translational autoimmunity (2020; 3:) "Axenic <i>Caenorhabditis elegans</i> antigen protects against development of type-1 diabetes in NOD mice." Author(s):Jackson-Thompson BM,Torrero M,Mitre BK,Long J,Packiam M,Mitre E PubMed Article URL: http://dx.doi.org/10.1016/j.jtauto.2020.100065
	25-0081 was used in Flow cytometry/Cell sorting to study the role of type 2 innate lymphoid cells in enhancing anti-cancer immunity and controlling metastasis.
Mouse / Not Cited	Scientific reports (2018; 8:) "Type 2 Innate Lymphocytes Actuate Immunity Against Tumours and Limit Cancer Metastasis." Author(s):Saranchova I,Han J,Zaman R,Arora H,Huang H,Fenninger F,Choi KB,Munro L,Pfeifer CG,Welch I,Takei F,Jefferies WA PubMed Article URL: http://dx.doi.org/10.1038/s41598-018-20608-6
	25-0081 was used in Flow cytometry/Cell sorting to study a platform for more accurately dissecting the early events in acute promyelocytic leukemia pathogenesis.
Mouse / Not Cited	The Journal of clinical investigation (2011; 121: 1636) "PML-RARA can increase hematopoietic self-renewal without causing a myeloproliferative disease in mice." Author(s):Welch JS,Yuan W,Ley TJ PubMed Article URL: http://dx.doi.org/10.1172/JCI42953
	25-0081-82 was used in Flow cytometry/Cell sorting to highlight the potential for FLASH irradiation to improve the therapeutic efficacy of checkpoint inhibition in the treatment of ovarian cancer.
Mouse / Not Cited	Molecular cancer therapeutics (2022; 21: 371) "Abdominopelvic FLASH Irradiation Improves PD-1 Immune Checkpoint Inhibition in Preclinical Models of Ovarian Cancer." Author(s):Eggold JT,Chow S,Melemenidis S,Wang J,Natarajan S,Loo PE,Manjappa R,Viswanathan V,Kidd EA,Engleman E,Dorigo O,Loo BW,Rankin EB PubMed Article URL: http://dx.doi.org/10.1158/1535-7163.MCT-21-0358
	25-0081-82 was used in Flow Cytometry to establish a tumor-suppressive function of WHSC1 that relays IFN- signaling to promote antigen presentation in CRC cells, and provide a rationale for boosting WHSC1 activity in immunotherapy.
Human / Not Cited	The Journal of clinical investigation (2022; 132:) "Histone methyltransferase WHSC1 loss dampens MHC-I antigen presentation pathway to impair IFN--stimulated antitumor immunity." Author(s):Ren J,Li N,Pei S,Lian Y,Li L,Peng Y,Liu Q,Guo J,Wang X,Han Y,Zhang G,Wang H,Li Y,Jiang J,Li Q,Tan M,Peng J,Hu G,Xiao Y,Li X,Lin M,Qin J PubMed Article URL: http://dx.doi.org/10.1172/JCI153167
	25-0081 was used in Flow cytometry/Cell sorting to identify a discrete ILC2-committed population and delineated transition states between early progenitors and a highly heterogeneous ILC1, ILC3, and NK precursor cell cluster.
Mouse / Not Cited	Immunity (2019; 51: 104) "Polychromic Reporter Mice Reveal Unappreciated Innate Lymphoid Cell Progenitor Heterogeneity and Elusive ILC3 Progenitors in Bone Marrow." Author(s):Walker JA,Clark PA,Crisp A,Barlow JL,Szeto A,Ferreira ACF,Rana BMJ,Jolin HE,Rodriguez-Rodriguez N,Sivasubramaniam M,Pannell R,Cruickshank J,Daly M,Haim-Vilmsky L,Teichmann SA,McKenzie ANJ PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2019.05.002
	25-0081 was used in Flow cytometry/Cell sorting to elucidate the immunological importance of both the antigen and adjuvant: nASP and QuilA respectively, in a <i>Ostertagia ostertagi</i> vaccine.
Mouse / Not Cited	Scientific reports (2016; 6:) "Host protective ASP-based vaccine against the parasitic nematode Ostertagia ostertagi triggers NK cell activation and mixed IgG1-IgG2 response." Author(s):González-Hernández A,Van Coppenolle S,Borloo J,Van Meulder F,Paerewijck O,Peelaers I,Leclercq G,Claerebout E,Geldhof P PubMed Article URL: http://dx.doi.org/10.1038/srep29496
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Human / Not Cited	Scientific reports (2018; 8:) "Efficient immunoaffinity chromatography of lymphocytes directly from whole blood." Author(s):Mohr F,Przibilla S,Leonhardt F,Stemberger C,Dreher S,Müller TR,Fräßle SP,Schmidt GP,Kiene ML,Stadler H,Busch DH PubMed Article URL: http://dx.doi.org/10.1038/s41598-018-34589-z

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	25-0081 was used in Flow cytometry/Cell sorting to determine the factors governing a successful immune response to lethal SARS-CoV challenge.
Mouse / Not Cited	Journal of virology (2014; 88: 11034) "Virus-specific memory CD8 T cells provide substantial protection from lethal severe acute respiratory syndrome coronavirus infection." Author(s):Channappanavar R,Fett C,Zhao J,Meyerholz DK,Perlman S PubMed Article URL: http://dx.doi.org/10.1128/JVI.01505-14
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to develop a two-stage system to determine cellular heterogeneity. Nature communications (2014; 5:) "Discriminating cellular heterogeneity using microwell-based RNA cytometry." Author(s):Dimov IK,Lu R,Lee EP,Seita J,Sahoo D,Park SM,Weissman IL,Lee LP PubMed Article URL: http://dx.doi.org/10.1038/ncomms4451
Mouse / 1:200	25-0081-82 was used in Flow cytometry/Cell sorting to show that ferroptosis negatively impacts antigen presenting cells and hence the adaptive immune response, which might hinder therapeutic applications of ferroptosis induction. Nature communications (2022; 13:) "Cancer cells dying from ferroptosis impede dendritic cell-mediated anti-tumor immunity." Author(s):Wiernicki B,Maschalidi S,Pinney J,Adjemian S,Vanden Berghe T,Ravichandran KS,Vandenabeele P PubMed Article URL: http://dx.doi.org/10.1038/s41467-022-31218-2
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Mouse / Not Cited	25-0081-82 was used in Flow Cytometry to investigate the potential of ES-62, an anti-inflammatory secreted product of the filarial nematode Acanthocheilonema viteae, to improve healthspan (the period of life before diseases of ageing appear) by targeting the chronic inflammation that drives metabolic dysregulation underpinning ageing-induced ill-health. PLoS pathogens (2020; 16:) "The parasitic worm product ES-62 promotes health- and life-span in a high calorie diet-accelerated mouse model of ageing." Author(s):Crowe J,Lumb FE,Doonan J,Broussard M,Tarafdar A,Pineda MA,Landabaso C,Mulvey L,Hoskisson PA,Babayan SA,Selman C,Harnett W,Harnett MM PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1008391
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to assess the utility of ablative fractional photothermolysis for treating oncological indications. Scientific reports (2017; 7:) "Fractional Laser Releases Tumor-Associated Antigens in Poorly Immunogenic Tumor and Induces Systemic Immunity." Author(s):Kawakubo M,Cunningham TJ,Demehri S,Manstein D PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-13095-8
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Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that a complex microbiota and cognate antigen are required to generate a properly regulated set of Foxp3+RORt+ T cells and Th17 cells. Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 1531) "Restricted microbiota and absence of cognate TCR antigen leads to an unbalanced generation of Th17 cells." Author(s):Lochner M,Bérard M,Sawa S,Hauer S,Gaboriau-Routhiau V,Fernandez TD,Snel J,Bousso P,Cerf-Bensussan N,Eberl G PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1001723

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25-0081 was used in Flow cytometry/Cell sorting to evaluate the relationship between growth rates of tumours in common spontaneous mammary tumor models and immune biomarkers evaluated in the tumour and blood.

Mouse / Not Cited

Breast cancer research and treatment (2014; 148: 501)
"Natural history of tumor growth and immune modulation in common spontaneous murine mammary tumor models."
Author(s):Gad E,Rastetter L,Slota M,Koehnlein M,Treuting PM,Dang Y,Stanton S,Disis ML
PubMed Article URL:<http://dx.doi.org/10.1007/s10549-014-3199-9>

25-0081 was used in Flow cytometry/Cell sorting to examine the interactions between myeloid-derived suppressor cells and mast cells in the mucosa of patients with colon carcinoma.

Mouse / Not Cited

Cancer immunology research (2015; 3: 85)
"Mast cells boost myeloid-derived suppressor cell activity and contribute to the development of tumor-favoring microenvironment."
Author(s):Danelli L,Frossi B,Gri G,Mion F,Guarnotta C,Bongiovanni L,Tripodo C,Mariuzzi L,Marzinotto S,Rigoni A,Blank U, Colombo MP,Pucillo CE
PubMed Article URL:<http://dx.doi.org/10.1158/2326-6066.CIR-14-0102>

25-0081 was used in Flow cytometry/Cell sorting to identify the cells that support primary measles infection before systemic spread.

Mouse / Not Cited

Journal of virology (2010; 84: 3033)
"Measles virus infection of alveolar macrophages and dendritic cells precedes spread to lymphatic organs in transgenic mice expressing human signaling lymphocytic activation molecule (SLAM, CD150)."
Author(s):Ferreira CS,Frenzke M,Leonard VH,Welstead GG,Richardson CD,Cattaneo R
PubMed Article URL:<http://dx.doi.org/10.1128/JVI.01559-09>

25-0081 was used in Flow cytometry/Cell sorting to show peripheral mast cells can modify dendritic cell functionality to influence lymphoid tissue-borne adaptive immunity.

Mouse / Not Cited

The Journal of allergy and clinical immunology (2019; 143: 1849)
"Engulfment of mast cell secretory granules on skin inflammation boosts dendritic cell migration and priming efficiency."
Author(s):Dudeck J,Froebel J,Kotrba J,Lehmann CHK,Dudziak D,Speier S,Nedospasov SA,Schraven B,Dudeck A
PubMed Article URL:<http://dx.doi.org/10.1016/j.jaci.2018.08.052>

25-0081-82 was used in Flow Cytometry to propose that intrathymic miR-181a/b-1 controls development of Treg cells and imposes a developmental legacy on their peripheral function.

Mouse / Not Cited

PLoS biology (2019; 17:)
"miR-181a/b-1 controls thymic selection of Treg cells and tunes their suppressive capacity."
Author(s):yszkievicz M,Winter SJ,Witzlau K,Föhse L,Brownlie R,Puchaka J,Verheyden NA,Kunze-Schumacher H, Imelmann E,Blume J,Raha S,Sekiya T,Yoshimura A,Frueh JT,Ullrich E,Huehn J,Weiss S,Gutierrez MG,Prinz I,Zamoyska R,Zitara N,Krueger A
PubMed Article URL:<http://dx.doi.org/10.1371/journal.pbio.2006716>

25-0081 was used in Flow cytometry/Cell sorting to show suppressive regulatory T cells accumulate in tumour cells in the absence of p53 indicating a pathway in which cancer cells circumvent immune destruction.

Mouse / Not Cited

Cell reports (2020; 30: 481)
"Cancer-Specific Loss of p53 Leads to a Modulation of Myeloid and T Cell Responses."
Author(s):Blagih J,Zani F,Chakravarty P,Hennequart M,Pilley S,Hobor S,Hock AK,Walton JB,Morton JP,Gronroos E, Mason S,Yang M,McNeish I,Swanton C,Blyth K,Vousden KH
PubMed Article URL:<http://dx.doi.org/10.1016/j.celrep.2019.12.028>

25-0081 was used in Flow cytometry/Cell sorting to determine the mechanisms by which regulatory T cells promote an appropriate healing response after a heart attack.

Mouse / Not Cited

Circulation research (2014; 115: 55)
"Foxp3+ CD4+ T cells improve healing after myocardial infarction by modulating monocyte/macrophage differentiation."
Author(s):Weirather J,Hofmann UD,Beyersdorf N,Ramos GC,Vogel B,Frey A,Ertl G,Kerkau T,Frantz S
PubMed Article URL:<http://dx.doi.org/10.1161/CIRCRESAHA.115.303895>

25-0081-82 was used in Flow Cytometry to show that IgA+ plasmablast and/or plasma cells mobilized from the gut play an role in suppressing neuroinflammation.

Mouse / Not Cited

Cell (2019; 176: 610)
"Recirculating Intestinal IgA-Producing Cells Regulate Neuroinflammation via IL-10."
Author(s):Rojas OL,Pröbstel AK,Porfilio EA,Wang AA,Charabati M,Sun T,Lee DSW,Galicia G,Ramaglia V,Ward LA,Leung LYT,Najafi G,Khaleghi K,Garcillán B,Li A,Besla R,Naouar I,Cao EY,Chiaranunt P,Burrows K,Robinson HG,Allanach JR, Yam J,Luck H,Campbell DJ,Allman D,Brooks DG,Tomura M,Baumann R,Zamvil SS,Bar-Or A,Horwitz MS,Winer DA, Mortha A,Mackay F,Prat A,Osborne LC,Robbins C,Baranzini SE,Gommerman JL
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Mouse / Not Cited	Cell (2017; 169: 807) "Vitamin A-Retinoic Acid Signaling Regulates Hematopoietic Stem Cell Dormancy." Author(s):Cabezas-Wallscheid N,Buettner F,Sommerkamp P,Klimmeck D,Ladel L,Thalheimer FB,Pastor-Flores D,Roma LP,Renders S,Zeisberger P,Przybylla A,Schönberger K,Scognamiglio R,Altamura S,Florian CM,Fawaz M,Vonficht D,Tesio M,Collier P,Pavlinic D,Geiger H,Schroeder T,Benes V,Dick TP,Rieger MA,Stegle O,Trumpf A PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2017.04.018
	25-0081 was used in Flow cytometry/Cell sorting to investigate the mechanism by which interferon beta limits T cell responses and its potential therapeutic use for multiple sclerosis.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2015; 194: 5120) "IFN- Selectively Inhibits IL-2 Production through CREM-Mediated Chromatin Remodeling." Author(s):Otero DC,Fares-Frederickson NJ,Xiao M,Baker DP,David M PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1403181
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that prenatal administration of betamethasone causes changes in the T cell receptor repertoire influencing development of autoimmunity.
Mouse / Not Cited	Frontiers in immunology (2019; 8:) "Prenatal Administration of Betamethasone Causes Changes in the T Cell Receptor Repertoire Influencing Development of Autoimmunity." Author(s):Gieras A,Gehbauer C,Perna-Barrull D,Engler JB,Diepenbruck I,Glau L,Joose SA,Kersten N,Klinge S,Mittrücker HW,Friese MA,Vives-Pi M,Tolosa E PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2017.01505
	25-0081 was used in Flow cytometry/Cell sorting to investigate whether unrelated infections will compromise numbers of Plasmodium-specific memory CD8 T cells, showing that attrition of Plasmodium-specific cells is rescued by booster immunisation.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 3836) "Cutting edge: attrition of Plasmodium-specific memory CD8 T cells results in decreased protection that is rescued by booster immunization." Author(s):Schmidt NW,Harty JT PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1003949
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that a key function of IL-17A in central nervous system (CNS) autoimmunity is to recruit IL-1-secreting myeloid cells that prime pathogenic T17 and Th17 cells.
Mouse / Not Cited	Immunity (2020; 52: 342) "Interleukin-17A Serves a Priming Role in Autoimmunity by Recruiting IL-1-Producing Myeloid Cells that Promote Pathogenic T Cells." Author(s):McGinley AM,Sutton CE,Edwards SC,Leane CM,DeCoursey J,Teijeiro A,Hamilton JA,Boon L,Djouder N,Mills KHG PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2020.01.002
	25-0081-82 was used in Flow Cytometry to suggest that Ppof2 is crucial to support survival of immature CD8+ DCs, while Ppof2 down-regulation during DC-maturation limits T cell responses.
Mouse / Not Cited	Frontiers in immunology (2020; 10:) "Expression of the Phosphatase Ppof2 Controls Survival and Function of CD8<sup>+</sup> Dendritic Cells." Author(s):Zwick M,Ulas T,Cho YL,Ried C,Grosse L,Simon C,Bernhard C,Busch DH,Schultze JL,Buchholz VR,Stutte S,Brockert T PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2019.00222
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that combining vaccination with local immunostimulation may be an effective treatment strategy for different types of cancer.
Mouse / Not Cited	Oncoimmunology (2015; 4:) "Local <i>Salmonella</i> immunostimulation recruits vaccine-specific CD8 T cells and increases regression of bladder tumor." Author(s):Domingos-Pereira S,Hojjaji R,Reggi E,Derré L,Chevalier MF,Romero P,Jichlinski P,Nardelli-Haeffliger D PubMed Article URL: http://dx.doi.org/10.1080/2162402X.2015.1016697
	25-0081 was used in Flow cytometry/Cell sorting to indicate that CD47 blockade not only enhances the function of innate immune cells but also links to adaptive immune responses through improved APC function.
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25-0081 was used in Flow cytometry/Cell sorting to investigate the role of Ly49D-mediated ITAM signaling, showing that it impairs development by bypassing the pre-TCR checkpoint.

Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2011; 187: 110)</p> <p>"Ly49D-mediated ITAM signaling in immature thymocytes impairs development by bypassing the pre-TCR checkpoint."</p> <p>Author(s):Merck E,Lees RK,Voyle RB,Held W,MacDonald HR</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1002755</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to show that increased fatty acid oxidation (FAO) driven by activated STAT3 in CD8+ T effector cells is critical for obesity-associated breast tumor progression.</p> <p>Cell metabolism (2020; 31: 148)</p> <p>"STAT3 Activation-Induced Fatty Acid Oxidation in CD8<sup>+</sup> T Effector Cells Is Critical for Obesity-Promoted Breast Tumor Growth."</p> <p>Author(s):Zhang C,Yue C,Herrmann A,Song J,Egelston C,Wang T,Zhang Z,Li W,Lee H,Aftabizadeh M,Li YJ,Lee PP,Forman S,Somlo G,Chu P,Kruper L,Mortimer J,Hoon DSB,Huang W,Priceman S,Yu H</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.cmet.2019.10.013</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to demonstrate the role of Burkholderia pseudomallei outer membrane vesicle vaccines in cross protection against inhalationalglanders.</p> <p>Vaccines (2017; 5:)</p> <p>"A Burkholderia pseudomallei Outer Membrane Vesicle Vaccine Provides Cross Protection against Inhalational Glanders in Mice and Non-Human Primates."</p> <p>Author(s):Baker SM,Davitt CJH,Motyka N,Kikendall NL,Russell-Lodrigue K,Roy CJ,Morici LA</p> <p>PubMed Article URL:http://dx.doi.org/10.3390/vaccines5040049</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to demonstrate the alarmin HMGN1 contributes to antitumor immunity and may offer an effective adjuvant to heighten responses to cancer vaccines.</p> <p>Cancer research (2014; 74: 5989)</p> <p>"The Alarmin HMGN1 contributes to antitumor immunity and is a potent immunoadjuvant."</p> <p>Author(s):Wei F,Yang D,Tewary P,Li Y,Li S,Chen X,Howard OM,Bustin M,Oppenheim JJ</p> <p>PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-13-2042</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to assess the effect of eosinophils on B cell survival, proliferation, and Ig secretion.</p> <p>Journal of immunology (Baltimore, Md. : 1950) (2014; 192: 3548)</p> <p>"Eosinophils regulate peripheral B cell numbers in both mice and humans."</p> <p>Author(s):Wong TW,Doyle AD,Lee JJ,Jelinek DF</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1302241</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to study the role of CD4 T cell subsets in the clearance of attenuated rabies virus from central nervous system tissues.</p> <p>Journal of immunology (Baltimore, Md. : 1950) (2015; 195: 4358)</p> <p>"T-bet Is Required for the Rapid Clearance of Attenuated Rabies Virus from Central Nervous System Tissue."</p> <p>Author(s):Lebrun A,Portocarrero C,Kean RB,Barkhouse DA,Faber M,Hooper DC</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1501274</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate how mRNA-based vaccines interact with radiation therapy in treating established tumours.</p> <p>Radiation oncology (London, England) (2014; 9:)</p> <p>"mRNA-based vaccines synergize with radiation therapy to eradicate established tumors."</p> <p>Author(s):Fotin-Mleczek M,Zanzinger K,Heidenreich R,Lorenz C,Kowalczyk A,Kallen KJ,Huber SM</p> <p>PubMed Article URL:http://dx.doi.org/10.1186/1748-717X-9-180</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to highlight the importance of the natural route of infection in the study of experimental cerebral malaria with potentials implications for vaccine and therapeutic strategies against malaria.</p> <p>Frontiers in immunology (2019; 9:)</p> <p>"A <i>Plasmodium</i> Cross-Stage Antigen Contributes to the Development of Experimental Cerebral Malaria."</p> <p>Author(s):Fernandes P,Howland SW,Heiss K,Hoffmann A,Hernández-Castañeda MA,Obrová K,Frank R,Wiedemann P,Bendzus M,Rénia L,Mueller AK</p> <p>PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2018.01875</p>
Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to demonstrate that a unilateral cut of the corneal nerve results in activation of immune cells on the ocular surface and dysregulation of lacrimal secretion bilaterally through the bidirectional neuronal signals.</p> <p>Investigative ophthalmology & visual science (2019; 60: 430)</p> <p>"Bilateral Effect of the Unilateral Corneal Nerve Cut on Both Ocular Surface and Lacrimal Gland."</p> <p>Author(s):Lee HK,Kim KW,Ryu JS,Jeong HJ,Lee SM,Kim MK</p> <p>PubMed Article URL:http://dx.doi.org/10.1167/iovs.18-26051</p>

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Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate thymic involution in FVB/N mice, showing that disruption of the epithelial-endothelial relationship and a progressive loss of pro-T cells precedes involution, and loss of pro-T cells is sufficient to drive premature involution, suggesting that pro-T cells are the main driver of involution.</p> <p>European journal of immunology (2015; 45: 1535) "Premature thymic involution is independent of structural plasticity of the thymic stroma." Author(s):Franckaert D,Schlenner SM,Heirman N,Gill J,Skogberg G,Ekwall O,Put K,Linterman MA,Dooley J,Liston A PubMed Article URL:http://dx.doi.org/10.1002/eji.201445277</p>
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Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to suggest that the establishment of tumour-associated inflammation and immunity critically depends on lymphatic vessel remodelling and drainage.</p> <p>The Journal of clinical investigation (2016; 126: 3389) "Lymphatic vessels regulate immune microenvironments in human and murine melanoma." Author(s):Lund AW,Wagner M,Fankhauser M,Steinskog ES,Broggi MA,Spranger S,Gajewski TF,Alitalo K,Eikesdal HP,Wiig H,Swartz MA PubMed Article URL:http://dx.doi.org/10.1172/JCI79434</p>
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Mouse / Not Cited	<p>25-0081 was used in Flow cytometry/Cell sorting to investigate how the inhibition of iNOS expression could enhance the therapeutic efficacy of GalCer via the increase of tumor antigen-specific immune response and the suppression of MDSCs.</p> <p>Oncotarget (2015; 6: 41863) "Inhibition of iNOS activity enhances the anti-tumor effects of alpha-galactosylceramide in established murine cancer model." Author(s):Ito H,Ando T,Seishima M PubMed Article URL:http://dx.doi.org/10.18632/oncotarget.6172</p>
Mouse / Not Cited	<p>25-0081-82 was used in Flow Cytometry to demonstrate distinct mechanisms whereby fetal tolerance is maintained during primary compared with subsequent pregnancies.</p> <p>Cell reports (2020; 31:) "CD8<sup>+</sup> T Cell Functional Exhaustion Overrides Pregnancy-Induced Fetal Antigen Alloimmunization." Author(s):Kinder JM,Turner LH,Stelzer IA,Miller-Handley H,Burg A,Shao TY,Pham G,Way SS PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2020.107784</p>
Mouse / Not Cited	<p>25-0081-82 was used in Flow cytometry/Cell sorting to uncover an immunoregulatory role for the nucleotide release channel, Panx1, in T cell crosstalk during airway disease.</p> <p>Immunity (2021; 54: 1715) "Pannexin 1 channels facilitate communication between T cells to restrict the severity of airway inflammation." Author(s):Medina CB,Chiu YH,Stremska ME,Lucas CD,Poon I,Tung KS,Elliott MR,Desai B,Lorenz UM,Bayliss DA,Ravichandran KS PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2021.06.014</p>

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Mouse / Not Cited	Journal for immunotherapy of cancer (2021; 9:) "Modulation of lactate-lysosome axis in dendritic cells by clotrimazole potentiates antitumor immunity." Author(s):Wang Z,Xu F,Hu J,Zhang H,Cui L,Lu W,He W,Wang X,Li M,Zhang H,Xiong W,Xie C,Liu Y,Zhou P,Liu J,Huang P,Qin XF,Xia X PubMed Article URL: http://dx.doi.org/10.1136/jitc-2020-002155
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Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2017; 198: 4383) "AIM2 Inflammasome Is Critical for Influenza-Induced Lung Injury and Mortality." Author(s):Zhang H,Luo J,Alcorn JF,Chen K,Fan S,Pilewski J,Liu A,Chen W,Kolls JK,Wang J PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1600714
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Mouse / Not Cited	The Journal of clinical investigation (2013; 123: 3420) "The nucleotide sugar UDP-glucose mobilizes long-term repopulating primitive hematopoietic cells." Author(s):Kook S,Cho J,Lee SB,Lee BC PubMed Article URL: http://dx.doi.org/10.1172/JCI64060
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Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2013; 190: 3480) "Peptidoglycan recognition protein 1 enhances experimental asthma by promoting Th2 and Th17 and limiting regulatory T cell and plasmacytoid dendritic cell responses." Author(s):Park SY,Jing X,Gupta D,Dziarski R PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1202675

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	25-0081-82 was used in Flow Cytometry to employ RBPJ-inducible and KN6-transgenic mice to assess the roles of ontogenic timing, T cell receptor (TCR) signal strength, and Notch signaling.
Mouse / Not Cited	Cell reports (2021; 35:) "Ontogenic timing, T cell receptor signal strength, and Notch signaling direct T cell functional differentiation in vivo." Author(s):Chen ELY, Lee CR, Thompson PK, Wiest DL, Anderson MK, Zúñiga-Pflücker JC PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2021.109227
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to show that mice lacking the autophagy gene Atg7 in T cells failed to establish CD8(+) T cell memory to influenza and MCMV infection. eLife (2014; 3:) "Autophagy is a critical regulator of memory CD8(+) T cell formation." Author(s):Puleston DJ, Zhang H, Powell TJ, Lipina E, Sims S, Panse I, Watson AS, Cerundolo V, Townsend AR, Klenerman P, Simon AK PubMed Article URL: http://dx.doi.org/10.7554/eLife.03706
Mouse / Not Cited	25-0081-82 was used in flow cytometry experiments to suggest that CPXV14 contributes to virulence and immune evasion by binding to host FcRs. PLoS pathogens (2022; 18:) "The secreted protein Cowpox Virus 14 contributes to viral virulence and immune evasion by engaging Fc-gamma-receptors." Author(s):Iyer RF, Edwards DM, Kolb P, Raué HP, Nelson CA, Epperson ML, Slifka MK, Nolz JC, Hengel H, Fremont DH, Früh K PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1010783
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to investigate whether loss of immunosuppression occurs when IFN- is expressed by Tregs, showing differential effects of IL-12 on Tregs and non-Treg T cells. PloS one (2013; 7:) "Differential effects of IL-12 on Tregs and non-Treg T cells: roles of IFN-, IL-2 and IL-2R." Author(s):Zhao J, Zhao J, Perlman S PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0046241
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to further define the processes underlying the development of lymphoma-like T cell infiltration. PloS one (2013; 7:) "Lymphoma-like T cell infiltration in liver is associated with increased copy number of dominant negative form of TGF receptor II." Author(s):Zhang W, Tsuda M, Yang GX, Tsuneyama K, He XS, Ansari AA, Ridgway WM, Coppel RL, Lian ZX, Leung PS, Gershwin ME PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0049413
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to investigate whether TLRs are involved in L. braziliensis-mediated dendritic cell activation, showing distinct roles for MyD88 and TLR2 in infection. Infection and immunity (2009; 77: 2948) "Distinct roles for MyD88 and Toll-like receptor 2 during Leishmania braziliensis infection in mice." Author(s):Vargas-Inchaustegui DA, Tai W, Xin L, Hogg AE, Corry DB, Soong L PubMed Article URL: http://dx.doi.org/10.1128/IAI.00154-09
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to study the role of regulatory T cells during Trypanosoma cruzi infection. Frontiers in immunology (2019; 9:) "Limited Foxp3<sup>+</sup> Regulatory T Cells Response During Acute <i>Trypanosoma cruzi</i> Infection Is Required to Allow the Emergence of Robust Parasite-Specific CD8<sup>+</sup> T Cell Immunity." Author(s):Araujo Furlan CL, Tosello Boari J, Rodriguez C, Canale FP, Fiocca Vernengo F, Boccardo S, Beccaria CG, Adoue V, Joffre O, Gruppi A, Montes CL, Acosta Rodriguez EV PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2018.02555
Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that type I interferons and STAT1 play an important role in the survival of MHC class I-restricted T cells. PloS one (2012; 6:) "T cell-intrinsic and -extrinsic contributions of the IFNAR/STAT1-axis to thymocyte survival." Author(s):Moro H, Otero DC, Tanabe Y, David M PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0024972

	25-0081 was used in Flow cytometry/Cell sorting to establish novel roles for Bcl11b in the regulatory loop that licenses Th2 program in vivo.
Mouse / Not Cited	<p>Nature communications (2018; 9:)</p> <p>"Bcl11b is essential for licensing Th2 differentiation during helminth infection and allergic asthma."</p> <p>Author(s):Lorentsen KJ,Cho JJ,Luo X,Zuniga AN,Urban JF,Zhou L,Gharaibeh R,Jobin C,Kladde MP,Avram D</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41467-018-04111-0</p>
	25-0081-82 was used in Flow cytometry/Cell sorting to report the ability of small drug-like molecule analogues of ES-62 to mimic some of its key actions, particularly in strongly protecting trabecular bone structure, highlighting the translational potential of these studies.
Mouse / Not Cited	<p>Frontiers in immunology (2022; 13:)</p> <p>"The parasitic worm product ES-62 protects the osteoimmunology axis in a mouse model of obesity-accelerated ageing."</p> <p>Author(s):Harnett MM,Doonan J,Lumb FE,Crowe J,Damink RO,Buitrago G,Duncombe-Moore J,Wilkinson DI,Suckling CJ,Selman C,Harnett W</p> <p>PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2022.953053</p>
	25-0081 was used in Flow cytometry/Cell sorting to show that disruption of the Gdpd3 gene encoding a lysophospholipase D enzyme decreases the self-renewal capacity of murine chronic myelogenous leukaemia stem cells.
Mouse / 1:500	<p>Nature communications (2020; 11:)</p> <p>"The lysophospholipase D enzyme Gdpd3 is required to maintain chronic myelogenous leukaemia stem cells."</p> <p>Author(s):Naka K,Ochiai R,Matsubara E,Kondo C,Yang KM,Hoshii T,Araki M,Araki K,Sotomaru Y,Sasaki K,Mitani K,Kim DW,Ooshima A,Kim SJ</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41467-020-18491-9</p>
	25-0081 was used in Flow cytometry/Cell sorting to investigate the antitumor and immunomodulatory effects of CS2164.
Mouse / Not Cited	<p>Anti-cancer drugs (2019; 30: 909)</p> <p>"Antitumor and immunomodulatory effects of a novel multitarget inhibitor, CS2164, in mouse hepatocellular carcinoma models."</p> <p>Author(s):Zhou Y,Fu C,Kong Y,Pan D,Wang Y,Huang S,Li Z,Ning Z,Lu X,Shan S,Xin L</p> <p>PubMed Article URL:http://dx.doi.org/10.1097/CAD.0000000000000791</p>
	25-0081 was used in Flow cytometry/Cell sorting to study how secreted superantigens contribute to the fitness and evolution of S. pyogenes.
Mouse / Not Cited	<p>PLoS pathogens (2014; 10:)</p> <p>"Bacterial superantigens promote acute nasopharyngeal infection by Streptococcus pyogenes in a human MHC Class II-dependent manner."</p> <p>Author(s):Kasper KJ,Zeppa JJ,Wakabayashi AT,Xu SX,Mazzuca DM,Welch I,Baroja ML,Kotb M,Cairns E,Cleary PP,Haeryfar SM,McCormick JK</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1004155</p>
	25-0081 was used in Flow cytometry/Cell sorting to develop and optimise a protocol for the rapid and convenient detection of the transcription factor BCL11B in T lymphocyte subpopulations.
Mouse / Not Cited	<p>Methods in molecular biology (Clifton, N.J.) (2010; 647: 377)</p> <p>"Flow cytometry analysis of transcription factors in T lymphocytes."</p> <p>Author(s):Albu DI,Califano D,Avram D</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/978-1-60761-738-9_23</p>
	25-0081 was used in Flow cytometry/Cell sorting to analyse the role of the anti-apoptotic protein, BCL2A1/A1, in blood cancers driven by either the MYC or ABL kinases.
Mouse / Not Cited	<p>Oncogene (2017; 36: 2066)</p> <p>"MYC selects against reduced BCL2A1/A1 protein expression during B cell lymphomagenesis."</p> <p>Author(s):Sochalska M,Schuler F,Weiss JG,Prchal-Murphy M,Sexl V,Villunger A</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/onc.2016.362</p>
	25-0081 was used in Flow cytometry/Cell sorting to suggest that IL-2-F5111.2 may provide an immunotherapy to treat autoimmune diseases and graft-versus-host disease.
Mouse / 1:50	<p>Nature medicine (2018; 24: 1005)</p> <p>"A human anti-IL-2 antibody that potentiates regulatory T cells by a structure-based mechanism."</p> <p>Author(s):Trotta E,Bessette PH,Silveria SL,Ely LK,Jude KM,Le DT,Holst CR,Coyle A,Potempa M,Lanier LL,Garcia KC,Crellin NK,Rondon IJ,Bluestone JA</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41591-018-0070-2</p>

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25-0081 was used in Flow cytometry/Cell sorting to investigate the effect Paeoniflorin has on Th cells and dendritic cells in a mouse MS model.

Mouse / Not Cited

Scientific reports (2017; 7:)
"Paeoniflorin Ameliorates Experimental Autoimmune Encephalomyelitis via Inhibition of Dendritic Cell Function and Th17 Cell Differentiation."
Author(s):Zhang H,Qi Y,Yuan Y,Cai L,Xu H,Zhang L,Su B,Nie H
PubMed Article URL:<http://dx.doi.org/10.1038/srep41887>

Mouse / Not Cited

25-0081-82 was used in Flow Cytometry to demonstrate that Remote Limb Ischemic Postconditioning protects against ischemic brain injury, at least in part by activating and maintaining the Tregs through the nicotinamide adenine dinucleotide /nicotinamide adenine dinucleotide hydrate pathway.

Journal of the American Heart Association (2021; 10:)
"Remote Limb Ischemic Postconditioning Protects Against Ischemic Stroke by Promoting Regulatory T Cells Thriving."
Author(s):Yu HH,Ma XT,Ma X,Chen M,Chu YH,Wu LJ,Wang W,Qin C,Tian DS
PubMed Article URL:<http://dx.doi.org/10.1161/JAHA.121.023077>

Mouse / Not Cited

25-0081 was used in Flow cytometry/Cell sorting to investigate the contribution of host DNA released at the site of vaccine injection to the adjuvant activity of alum.

Journal of immunology (Baltimore, Md. : 1950) (2016; 197: 1221)
"Contamination of DNase Preparations Confounds Analysis of the Role of DNA in Alum-Adjuvanted Vaccines."
Author(s):Noges LE,White J,Cambier JC,Kappler JW,Marrack P
PubMed Article URL:<http://dx.doi.org/10.4049/jimmunol.1501565>

Mouse / Not Cited

25-0081 was used in Flow cytometry/Cell sorting to highlight the importance of both route of vaccination and adjuvant selection in vaccine development.

PLoS pathogens (2014; 10:)
"Intranasal vaccination promotes detrimental Th17-mediated immunity against influenza infection."
Author(s):Maroof A,Yorgensen YM,Li Y,Evans JT
PubMed Article URL:<http://dx.doi.org/10.1371/journal.ppat.1003875>

Mouse / Not Cited

25-0081 was used in Flow cytometry/Cell sorting to demonstrate that NLG919/IR780 micelles combine PTT, immunotherapy, suppress the tumour margin and distal tumour growth post photothermal therapy.

Advanced science (Weinheim, Baden-Wurttemberg, Germany) (2018; 5:)
"Photosensitizer Micelles Together with IDO Inhibitor Enhance Cancer Photothermal Therapy and Immunotherapy."
Author(s):Peng J,Xiao Y,Li W,Yang Q,Tan L,Jia Y,Qu Y,Qian Z
PubMed Article URL:<http://dx.doi.org/10.1002/adv.201700891>

Mouse / Not Cited

25-0081 was used in Flow cytometry/Cell sorting to reveal a protective homozygous effect that defined a signalling optimum between autoimmunity and immunodeficiency and identified TYK2 as a potential drug target for autoimmune disorders.

Science translational medicine (2016; 8:)
"Resolving TYK2 locus genotype-to-phenotype differences in autoimmunity."
Author(s):Dendrou CA,Cortes A,Shipman L,Evans HG,Attfield KE,Jostins L,Barber T,Kaur G,Kuttikkatte SB,Leach OA,Desel C,Faergeman SL,Cheeseman J,Neville MJ,Sawcer S,Compston A,Johnson AR,Everett C,Bell JI,Karpe F,Ultsch M,Eigenbrot C,McVean G,Fugger L
PubMed Article URL:<http://dx.doi.org/10.1126/scitranslmed.aag1974>

Mouse / Not Cited

25-0081 was used in Flow cytometry/Cell sorting to investigate the anti-myeloma effects of allo-SCT from B10.D2 mice into MHC-matched myeloma-bearing Balb/cJ mice.

PloS one (2015; 9:)
"Establishment of a murine graft-versus-myeloma model using allogeneic stem cell transplantation."
Author(s):Binsfeld M,Beguín Y,Belle L,Otjacques E,Hannon M,Briquet A,Heusschen R,Drion P,Zilberberg J,Bogen B,Baron F,Caers J
PubMed Article URL:<http://dx.doi.org/10.1371/journal.pone.0113764>

Mouse / Not Cited

25-0081-82 was used in Flow cytometry/Cell sorting to support a novel strategy of developing a universal vaccine against influenza A and B viruses potentially in both young and aged populations by inducing multi-NA subtype and M2e immunity with a single VLP entity.

PLoS pathogens (2022; 18:)
"Universal protection against influenza viruses by multi-subtype neuraminidase and M2 ectodomain virus-like particle."
Author(s):Kim KH,Li Z,Bhatnagar N,Subbiah J,Park BR,Shin CH,Pushko P,Wang BZ,Kang SM
PubMed Article URL:<http://dx.doi.org/10.1371/journal.ppat.1010755>

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	25-0081 was used in Flow cytometry/Cell sorting to generate a mouse model expressing chimeric antigen receptors (CARs) specific for a tumour antigen under a pan-hematopoietic promoter.
Mouse / Not Cited	<p>PloS one (2016; 10:)</p> <p>"Expression of a Chimeric Antigen Receptor in Multiple Leukocyte Lineages in Transgenic Mice."</p> <p>Author(s):Yong CS,Westwood JA,Schröder J,Papenfuss AT,von Scheidt B,Moeller M,Devaud C,Darcy PK,Kershaw MH</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0140543</p>
	25-0081-82 was used in Flow Cytometry to provide a protocol for analysis of T cell activation and cytokine production in the thymus, spleen, and blood.
Mouse / Not Cited	<p>STAR protocols (2021; 2:)</p> <p>"Analysis of T cells in mouse lymphoid tissue and blood with flow cytometry."</p> <p>Author(s):Skordos I,Demeyer A,Beyaert R</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.xpro.2021.100351</p>
	25-0081 was used in Flow cytometry/Cell sorting to identify N-Me as a long-range oncogenic enhancer implicated directly in the pathogenesis of human leukaemia.
Mouse / Not Cited	<p>Nature medicine (2014; 20: 1130)</p> <p>"A NOTCH1-driven MYC enhancer promotes T cell development, transformation and acute lymphoblastic leukemia."</p> <p>Author(s):Herranz D,Ambesi-Impiombato A,Palomero T,Schnell SA,Belver L,Wendorff AA,Xu L,Castillo-Martin M,Llobet-Navás D,Cordon-Cardo C,Clappier E,Soulier J,Ferrando AA</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/nm.3665</p>
	25-0081 was used in Flow cytometry/Cell sorting to investigate the role of MHC-II in lymph node stromal cells, showing that stromal cells constrain immunity through MHC-II expression.
Mouse / Not Cited	<p>eLife (2014; 3:)</p> <p>"Lymph node stromal cells constrain immunity via MHC class II self-antigen presentation."</p> <p>Author(s):Baptista AP,Roozendaal R,Reijmers RM,Koning JJ,Unger WW,Greuter M,Keuning ED,Molenaar R,Goverse G, Sneebouer MM,den Haan JM,Boes M,Mebius RE</p> <p>PubMed Article URL:http://dx.doi.org/10.7554/eLife.04433</p>
	25-0081 was used in Flow cytometry/Cell sorting to show the dendritic cell response to T.gondii alters levels of CD8+ T cells which ultimately determine the outcome of infection.
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2010; 185: 1502)</p> <p>"Virulence of Toxoplasma gondii is associated with distinct dendritic cell responses and reduced numbers of activated CD8+ T cells."</p> <p>Author(s):Tait ED,Jordan KA,Dupont CD,Harris TH,Gregg B,Wilson EH,Pepper M,Dzierszynski F,Roos DS,Hunter CA</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0903450</p>
	25-0081 was used in Flow cytometry/Cell sorting to show, in mice and zebrafish, that M. tuberculosis preferentially recruits and infects permissive macrophages while evading microbicidal ones.
Mouse / Not Cited	<p>Nature (2014; 505: 218)</p> <p>"Mycobacteria manipulate macrophage recruitment through coordinated use of membrane lipids."</p> <p>Author(s):Cambier CJ,Takaki KK,Larson RP,Hernandez RE,Tobin DM,Urdahl KB,Cosma CL,Ramakrishnan L</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/nature12799</p>
	25-0081 was used in Flow cytometry/Cell sorting to study the role of MALT1 in the development of experimental autoimmune encephalomyelitis.
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2013; 190: 2896)</p> <p>"Paracaspase MALT1 deficiency protects mice from autoimmune-mediated demyelination."</p> <p>Author(s):Mc Guire C,Wieghofer P,Elton L,Muylaert D,Prinz M,Beyaert R,van Loo G</p> <p>PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1201351</p>
	25-0081 was used in Flow cytometry/Cell sorting to study how potentially antagonistic pro-inflammatory IL-17-producing and regulatory Foxp3(+) RORgamma t(+) T cells coexist and are tightly controlled.
Mouse / Not Cited	<p>The Journal of experimental medicine (2008; 205: 1381)</p> <p>"In vivo equilibrium of proinflammatory IL-17+ and regulatory IL-10+ Foxp3+ RORgamma t+ T cells."</p> <p>Author(s):Lochner M,Peduto L,Cherrier M,Sawa S,Langa F,Varona R,Riethmacher D,Si-Tahar M,Di Santo JP,Eberl G</p> <p>PubMed Article URL:http://dx.doi.org/10.1084/jem.20080034</p>
	25-0081 was used in Flow cytometry/Cell sorting to highlight the role of the environment in malignancy and colitis and is consistent with Notch-dependent anti-parasite immune responses being compromised in Notch dimer-deficient animals.
Mouse / Not Cited	<p>PLoS biology (2020; 18:)</p> <p>"Notch dimerization and gene dosage are important for normal heart development, intestinal stem cell maintenance, and splenic marginal zone B-cell homeostasis during mite infestation."</p> <p>Author(s):Kobia FM,Preusse K,Dai Q,Weaver N,Hass MR,Chaturvedi P,Stein SJ,Pear WS,Yuan Z,Kovall RA,Kuang Y, Eafergen N,Sprinzak D,Gebelein B,Brunskill EW,Kopan R</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pbio.3000850</p>

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	25-0081 was used in Flow cytometry/Cell sorting to establish Tpl2 as a critical mediator of MDSC recruitment and highlight the therapeutic potential of Tpl2 for the treatment of fulminant hepatitis (FH).
Mouse / Not Cited	Frontiers in immunology (2020; 10:) "Tl2 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells." Author(s):Xu J,Pei S,Wang Y,Liu J,Qian Y,Huang M,Zhang Y,Xiao Y PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2019.01980
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that cutaneous injury promotes an IL-33-dependent group 2 ILC response and that abrogation of this response can impair efficient wound closure.
Mouse / Not Cited	The Journal of investigative dermatology (2016; 136: 487) "IL-33-Dependent Group 2 Innate Lymphoid Cells Promote Cutaneous Wound Healing." Author(s):Rak GD,Osborne LC,Siracusa MC,Kim BS,Wang K,Bayat A,Artis D,Volk SW PubMed Article URL: http://dx.doi.org/10.1038/JID.2015.406
	25-0081 was used in Flow cytometry/Cell sorting to assessed the impact of azacytidine on cGVHD in a murine model of sclerodermic cGVHD.
Mouse / Not Cited	Journal of hematology & oncology (2016; 9:) "Azacytidine mitigates experimental sclerodermic chronic graft-versus-host disease." Author(s):Fransolet G,Ehx G,Somja J,Delens L,Hannon M,Muller J,Dubois S,Drion P,Caers J,Humblet-Baron S,Delvenne P,Beguín Y,Conteduca G,Baron F PubMed Article URL: http://dx.doi.org/10.1186/s13045-016-0281-2
	25-0081 was used in Flow cytometry/Cell sorting to study how aluminium acts as an adjuvant by introducing host DNA into the cytoplasm of dendritic cells, where it engages receptors promoting MHC II presentation.
Mouse / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (2013; 110: E1122) "Host DNA released in response to aluminum adjuvant enhances MHC class II-mediated antigen presentation and prolongs CD4 T-cell interactions with dendritic cells." Author(s):McKee AS,Burchill MA,Munks MW,Jin L,Kappler JW,Friedman RS,Jacobelli J,Marrack P PubMed Article URL: http://dx.doi.org/10.1073/pnas.1300392110
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Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 1578) "Phenotypic CD8+ T cell diversification occurs before, during, and after the first T cell division." Author(s):Lemaître F,Moreau HD,Vedele L,Bousso P PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1300424
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Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to examine the precise control exerted by the somatotrope growth hormone(GH)-releasing hormone/GH/insulin-like growth factor 1 axis on the immune system. Frontiers in endocrinology (2022; 9:) "The Severe Deficiency of the Somatotrope GH-Releasing Hormone/Growth Hormone/Insulin-Like Growth Factor 1 Axis of <i></i> Mice Is Associated With an Important Splenic Atrophy and Relative B Lymphopenia." Author(s):Bodart G,Farhat K,Renard-Charlet C,Becker G,Plenevaux A,Salvatori R,Geenen V,Martens H PubMed Article URL: http://dx.doi.org/10.3389/fendo.2018.00296
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Mouse / 1:100	25-0081-82 was used in Flow cytometry/Cell sorting to show that in mice lacking P2Y10 in the CD4 T cell compartment, the severity of experimental autoimmune encephalomyelitis and cutaneous contact hypersensitivity is reduced. Nature communications (2021; 12:) "G-protein-coupled receptor P2Y10 facilitates chemokine-induced CD4 T cell migration through autocrine /paracrine mediators." Author(s):Gurusamy M,Tischner D,Shao J,Klatt S,Zukunft S,Bonnaivion R,Günther S,Siebenbrodt K,Kestner RI,Kuhlmann T,Fleming I,Offermanns S,Wettschureck N PubMed Article URL: http://dx.doi.org/10.1038/s41467-021-26882-9
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Mouse / Not Cited	25-0081 was used in Flow cytometry/Cell sorting to develop an assay for the induction of negative selection based on stimulation of T cell receptor transgenic thymocytes with peptide-MHC tetramers. PloS one (2013; 7:) "Negative selection assay based on stimulation of T cell receptor transgenic thymocytes with peptide-MHC tetramers." Author(s):Rybakin V,Gascoigne NR PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0043191

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Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2012; 188: 1915) "STAT1-independent control of a neurotropic measles virus challenge in primary neurons and infected mice." Author(s):O'Donnell LA,Conway S,Rose RW,Nicolas E,Slifker M,Balachandran S,Rall GF PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1101356
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Mouse / 1:300	Nature communications (2021; 12:) "Tumor microenvironmental cytokines bound to cancer exosomes determine uptake by cytokine receptor-expressing cells and biodistribution." Author(s):Lima LG,Ham S,Shin H,Chai EPZ,Lek ESH,Lobb RJ,Müller AF,Mathivanan S,Yeo B,Choi Y,Parker BS,Möller A PubMed Article URL: http://dx.doi.org/10.1038/s41467-021-23946-8

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	25-0081 was used in Flow cytometry/Cell sorting to identify that IL-7 treatment should be beneficial in vaccinations settings in which high frequencies of effector CD8+ T cells do not down-regulate IL-7R expression upon priming, such as recombinant lentivector-based vaccines.
Mouse / Not Cited	<p>Blood (2009; 113: 6629)</p> <p>"IL-7 adjuvant treatment enhances long-term tumor-antigen-specific CD8+ T-cell responses after immunization with recombinant lentivector."</p> <p>Author(s):Colombetti S,Lévy F,Chapatte L</p> <p>PubMed Article URL:http://dx.doi.org/10.1182/blood-2008-05-155309</p>
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that CXCR4 mediates migration of pathogenic T-cells to the bone marrow in aplastic anemia mice.
Mouse / Not Cited	<p>Blood (2015; 125: 2087)</p> <p>"CXCR4 expression on pathogenic T cells facilitates their bone marrow infiltration in a mouse model of aplastic anemia."</p> <p>Author(s):Arieta Kuksin C,Gonzalez-Perez G,Minter LM</p> <p>PubMed Article URL:http://dx.doi.org/10.1182/blood-2014-08-594796</p>
	25-0081-82 was used in Flow Cytometry to demonstrate that if in human colorectal cancer tumor samples expressing high levels of DKK2, DKK2 blockade cause stronger activation of tumor infiltrating CD8+ T cells in ex vivo culture.
Mouse / Not Cited	<p>Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie (2020; 127:)</p> <p>"DKK2 blockage-mediated immunotherapy enhances anti-angiogenic therapy of Kras mutated colorectal cancer."</p> <p>Author(s):Hu J,Wang Z,Chen Z,Li A,Sun J,Zheng M,Wu J,Shen T,Qiao J,Li L,Li B,Wu D,Xiao Q</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.biopha.2020.110229</p>
	25-0081 was used in Functional assays to suggest that B cells are more affected by hindlimb unloading than T cells, which may explain the high susceptibility to pathogens.
Mouse / Not Cited	<p>PloS one (2015; 9:)</p> <p>"Three weeks of murine hindlimb unloading induces shifts from B to T and from th to tc splenic lymphocytes in absence of stress and differentially reduces cell-specific mitogenic responses."</p> <p>Author(s):Gaignier F,Schenten V,De Carvalho Bittencourt M,Gauquelin-Koch G,Frippiat JP,Legrand-Frossi C</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0092664</p>
	25-0081 was used in Flow cytometry/Cell sorting to show the combination of PD-1 blockade and oHSV-1 may be an effective treatment strategy for childhood soft tissue sarcoma.
Mouse / Not Cited	<p>Scientific reports (2017; 7:)</p> <p>"Cooperation of Oncolytic Herpes Virotherapy and PD-1 Blockade in Murine Rhabdomyosarcoma Models."</p> <p>Author(s):Chen CY,Wang PY,Hutzen B,Sprague L,Swain HM,Love JK,Stanek JR,Boon L,Conner J,Cripe TP</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41598-017-02503-8</p>
	25-0081 was used in Flow cytometry/Cell sorting to identify the origin of vascular smooth muscle cells and macrophages within atherosclerosis lesions.
Mouse / Not Cited	<p>Atherosclerosis (2016; 251: 445)</p> <p>"Lineage tracing of cells involved in atherosclerosis."</p> <p>Author(s):Albarrán-Juárez J,Kaur H,Grimm M,Offermanns S,Wetschureck N</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.atherosclerosis.2016.06.012</p>
	25-0081 was used in Flow cytometry/Cell sorting to analyse mesenchymal stem- and T-cell migration during experimental allergic encephalomyelitis.
Mouse / Not Cited	<p>Frontiers in immunology (2013; 4:)</p> <p>"Mesenchymal stem cells are mobilized from the bone marrow during inflammation."</p> <p>Author(s):Koning JJ,Kooij G,de Vries HE,Nolte MA,Mebius RE</p> <p>PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2013.00049</p>
	25-0081 was used in Flow cytometry/Cell sorting to examine the effects of global histone/protein deacetylase inhibition on regulatory T cell function.
Mouse / Not Cited	<p>Scientific reports (2017; 7:)</p> <p>"Histone/protein deacetylase 11 targeting promotes Foxp3+ Treg function."</p> <p>Author(s):Huang J,Wang L,Dahiya S,Beier UH,Han R,Samanta A,Bergman J,Sotomayor EM,Seto E,Kozikowski AP,Hancock WW</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41598-017-09211-3</p>
	25-0081 was used in Flow cytometry/Cell sorting to demonstrate that BEN-TBI reduces graft-versus-host disease (GvHD) compared to CY-TBI independently of T regulatory cells (Tregs).
Mouse / Not Cited	<p>Oncoimmunology (2021; 9:)</p> <p>"Bendamustine with total body irradiation conditioning yields tolerant T-cells while preserving T-cell-dependent graft-versus-leukemia."</p> <p>Author(s):Stokes J,Hoffman EA,Molina MS,Kummet N,Simpson RJ,Zeng Y,Katsanis E</p> <p>PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2020.1758011</p>

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3 Functional Assay References

Species / Dilution	Summary
	25-0081 was used in Functional assays to assess whether inhibitory MHC-I receptors educate only natural killer cells or whether they evoke responses in all cell types, which express them.
Mouse / Not Cited	Blood (2011; 118: 339) "Inhibitory receptors specific for MHC class I educate murine NK cells but not CD8 intestinal intraepithelial T lymphocytes." Author(s):Taveirne S,Filtjens J, Van Ammel E,De Colvenaer V,Kerre T,Taghon T,Vandekerckhove B,Plum J,Held W, Leclercq G PubMed Article URL: http://dx.doi.org/10.1182/blood-2011-01-331124
Not Applicable / Not Cited	Investigative ophthalmology & visual science (2008; 49: 2172) "Suppression of alkali burn-induced corneal neovascularization by dendritic cell vaccination targeting VEGF receptor 2." Author(s):Mochimaru H,Usui T,Yaguchi T,Nagahama Y,Hasegawa G,Usui Y,Shimmura S,Tsubota K,Amano S,Kawakami Y,Ishida S PubMed Article URL: http://dx.doi.org/10.1167/iovs.07-1396
Not Applicable / Not Cited	Circulation (2006; 114: 2056) "Myocardial infarct-sparing effect of adenosine A2A receptor activation is due to its action on CD4+ T lymphocytes." Author(s):Yang Z,Day YJ,Toufektsian MC,Xu Y,Ramos SI,Marshall MA,French BA,Linden J PubMed Article URL: http://dx.doi.org/10.1161/CIRCULATIONAHA.106.649244

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