

CD45 Monoclonal Antibody (30-F11), PE-Cyanine7, eBioscience™

Catalog Number 25-0451-82

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b, kappa	Published species	Mouse, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 0.125 µg/test
Clone	30-F11	Published Applications	
Conjugate	PE-Cyanine7	Flow Cytometry (Flow)	See 108 publications below
Form	Liquid	Immunohistochemistry (PFA fixed) (IHC (PFA))	See 1 publications below
Concentration	0.2 mg/mL	Immunohistochemistry (Frozen) (IHC (F))	See 1 publications below
Purification	Affinity chromatography	Immunocytochemistry (ICC/IF)	See 1 publications below
Storage buffer	PBS, pH 7.2	Miscellaneous PubMed (Misc)	See 1 publications below
Contains	0.09% sodium azide	* 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.	
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Description: The 30-F11 monoclonal antibody reacts with all isoforms of mouse CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes. Applications Reported: This 30-F11 antibody has been reported for use in flow cytometric analysis. Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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

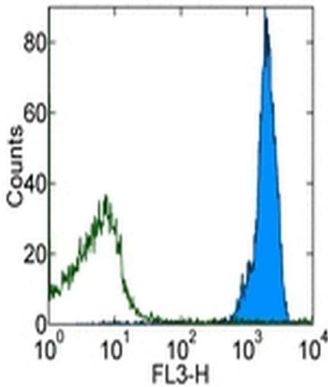
CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase (PTP) ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 is absent on non-hematopoietic cell lines, normal and malignant, non-hematopoietic tissues. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing, differ in their extracellular domains but share identical transmembrane and cytoplasmic domains. CD45RA is an isoform of the CD45 complex and has restricted expression between different subtypes of lymphoid cells. CD45 isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. CD45 has been shown to be an essential regulator of T- and B-cell antigen receptor signaling and suppresses JAK kinases to regulate cytokine receptor signaling. CD45 is also important in promoting cell survival by modulating integrin-mediated signal transduction pathway, DNA fragmentation during apoptosis and inhibition or upregulation of various immunological functions.

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**CD45 Antibody (25-0451-82) in Flow**

Staining of BALB/c splenocytes with 0.06 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD45 PE-Cyanine7 (filled histogram). Total splenocytes were used for analysis.

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108 Flow Cytometry References

Species / Dilution	Summary
	<p>25-0451 was used in Flow cytometry/Cell sorting to study how Gli1 marks mesenchymal progenitors responsible for both normal bone formation and fracture repair.</p>
Mouse / 1:1,000	<p>Nature communications ( 2017; 8: )  <b>"Gli1 identifies osteogenic progenitors for bone formation and fracture repair."</b>                      Author(s):Shi Y,He G,Lee WC,McKenzie JA,Silva MJ,Long F                      PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-017-02171-2">http://dx.doi.org/10.1038/s41467-017-02171-2</a></p>
	<p>25-0451-82 was used in Flow Cytometry to show that OX40 is a key molecule that promotes both pro-inflammatory macrophage and CD4+ T-cell function, exacerbating paracetamol-induced liver injury.</p>
Mouse / Not Cited	<p>British journal of pharmacology ( 2020; 177: 3183)  <b>"Critical role of OX40 in drug-induced acute liver injury."</b>                      Author(s):Zhang C,Jin H,Wang Y,Li C,Zhao X,Li Y,Shi W,Tian D,Liu K,Jia J,Sun G,Zhang D                      PubMed Article URL:<a href="http://dx.doi.org/10.1111/bph.15041">http://dx.doi.org/10.1111/bph.15041</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate the protective role of local Interleukin-1 receptor antagonist in pancreatic islet cell-specific versus myeloid-cell-specific IL-1Ra knockout mice.</p>
Mouse / Not Cited	<p>Cell reports ( 2018; 22: 1774)  <b>" Cell-Specific Deletion of the IL-1 Receptor Antagonist Impairs Cell Proliferation and Insulin Secretion."</b>                      Author(s):Böni-Schnetzler M,Häuselmann SP,Dalmas E,Meier DT,Thienel C,Traub S,Schulze F,Steiger L,Dror E,Martin P,Herrera PL,Gabay C,Donath MY                      PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.celrep.2018.01.063">http://dx.doi.org/10.1016/j.celrep.2018.01.063</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to describe a novel, rapid and versatile method that detects bacteria phagocytosed by neutrophils.</p>
Mouse / Not Cited	<p>BMC research notes ( 2012; 5: )  <b>"A method for quantifying pulmonary Legionella pneumophila infection in mouse lungs by flow cytometry."</b>                      Author(s):Ang DK,Ong SY,Brown AS,Hartland EL,van Driel IR                      PubMed Article URL:<a href="http://dx.doi.org/10.1186/1756-0500-5-448">http://dx.doi.org/10.1186/1756-0500-5-448</a></p>
	<p>25-0451-82 was used in Flow cytometry/Cell sorting to show that constitutive activation of -catenin signaling in AT2 cells or treatment of organoid cultures with recombinant WNT3A protein bypasses the inhibitory effects of hypercapnia. Inhibition of AT2 proliferation in hypercapnic patients may contribute to impaired lung repair after injury, preventing sealing of the epithelial barrier, increasing lung flooding, ventilator dependency and mortality..</p>
Mouse / Not Cited	<p>JCI insight ( 2023; 8: )  <b>"Hypercapnia alters stroma-derived Wnt production to limit -catenin signaling and proliferation in AT2 cells."</b>                      Author(s):Dada LA,Welch LC,Magnani ND,Ren Z,Han H,Brazee PL,Celli D,Flozak AS,Weng A,Herrerias MM,Kryvenko V,Vadász I,Rünyan CE,Abdala-Valencia H,Shigemura M,Casalino-Matsuda SM,Misharin AV,Budinger GRS,Gottardi CJ,Sznajder JI                      PubMed Article URL:<a href="http://dx.doi.org/10.1172/jci.insight.159331">http://dx.doi.org/10.1172/jci.insight.159331</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to characterise and test alloantigen-specific chimeric antigen receptors in regulatory T cells.</p>
Human / Not Cited	<p>JCI insight ( 2019; 4: )  <b>"Systematic testing and specificity mapping of alloantigen-specific chimeric antigen receptors in regulatory T cells."</b>                      Author(s):Dawson NA,Lamarche C,Hoepli RE,Bergqvist P,Fung VC,Mclver E,Huang Q,Gillies J,Speck M,Orban PC,Bush JW,Mojibian M,Levings MK                      PubMed Article URL:<a href="http://dx.doi.org/10.1172/jci.insight.123672">http://dx.doi.org/10.1172/jci.insight.123672</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate that microglial microRNA expression differs in males and females and that loss of microRNAs leads to sex-specific changes in the microglial transcriptome and tau pathology in mice.</p>
Mouse / 1:300	<p>Nature neuroscience ( 2020; 23: 167)  <b>"Microglial microRNAs mediate sex-specific responses to tau pathology."</b>                      Author(s):Kodama L,Guzman E,Etchegaray JI,Li Y,Sayed FA,Zhou L,Zhou Y,Zhan L,Le D,Udeochu JC,Clelland CD,Cheng Z,Yu G,Li Q,Kosik KS,Gan L                      PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41593-019-0560-7">http://dx.doi.org/10.1038/s41593-019-0560-7</a></p>

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	25-0451 was used in Flow cytometry/Cell sorting to explore the role of mast cells in the recruitment of protective CD8 T cells to the lungs during systemic infection.
Mouse / Not Cited	<p>PLoS pathogens ( 2014; 10: )</p> <p><b>"Mast cells expedite control of pulmonary murine cytomegalovirus infection by enhancing the recruitment of protective CD8 T cells to the lungs."</b></p> <p>Author(s):Ebert S,Becker M,Lemmermann NA,Büttner JK,Michel A,Taube C,Podlech J,Böhm V,Freitag K,Thomas D,Holtappels R,Reddehase MJ,Stassen M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.ppat.1004100">http://dx.doi.org/10.1371/journal.ppat.1004100</a></p>
Mouse / 1:200	<p>25-0451 was used in Flow cytometry/Cell sorting to characterise the intrinsic changes in breast cancer cells that facilitate bone-tropism and found that they acquire mesenchymal and osteomimetic features.</p> <p>Scientific reports ( 2020; 10: )</p> <p><b>"Bone metastasis is associated with acquisition of mesenchymal phenotype and immune suppression in a model of spontaneous breast cancer metastasis."</b></p> <p>Author(s):Monteran L,Ershaid N,Sabah I,Fahoum I,Zait Y,Shani O,Cohen N,Eldar-Boock A,Satchi-Fainaro R,Erez N</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41598-020-70788-3">http://dx.doi.org/10.1038/s41598-020-70788-3</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to study the mechanisms enhancing endogenous memory T cell activation to mediate tissue injury within the increased inflammatory environment of allografts subjected to prolonged cold ischaemic storage.</p> <p>JCI insight ( 2018; 3: )</p> <p><b>"Allograft dendritic cell p40 homodimers activate donor-reactive memory CD8+ T cells."</b></p> <p>Author(s):Tsuda H,Su CA,Tanaka T,Ayasoufi K,Min B,Valujskikh A,Fairchild RL</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1172/jci.insight.96940">http://dx.doi.org/10.1172/jci.insight.96940</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate the mechanisms of high salt in disease risk, showing that it primes a specific activation state of macrophages.</p> <p>Cell research ( 2015; 25: 893)</p> <p><b>"High salt primes a specific activation state of macrophages, M(Na)."</b></p> <p>Author(s):Zhang WC,Zheng XJ,Du LJ,Sun JY,Shen ZX,Shi C,Sun S,Zhang Z,Chen XQ,Qin M,Liu X,Tao J,Jia L,Fan HY,Zhou B,Yu Y,Ying H,Hui L,Liu X,Yi X,Liu X,Zhang L,Duan SZ</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/cr.2015.87">http://dx.doi.org/10.1038/cr.2015.87</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate that across models, cells derived from tissues forming heterotopic ossification exhibit increased osteogenic differentiation compared to normal tissues or osteoblasts.</p> <p>PloS one ( 2017; 11: )</p> <p><b>"Characterization of Cells Isolated from Genetic and Trauma-Induced Heterotopic Ossification."</b></p> <p>Author(s):Agarwal S,Drake J,Qureshi AT,Loder S,Li S,Shigemori K,Peterson J,Cholok D,Forsberg JA,Mishina Y,Davis TA,Levi B</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0156253">http://dx.doi.org/10.1371/journal.pone.0156253</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to study the secretion of exosomes containing miRNA cargo by adipose tissue macrophages.</p> <p>Cell ( 2017; 171: 372)</p> <p><b>"Adipose Tissue Macrophage-Derived Exosomal miRNAs Can Modulate In Vivo and In Vitro Insulin Sensitivity."</b></p> <p>Author(s):Ying W,Riopel M,Bandyopadhyay G,Dong Y,Birmingham A,Seo JB,Ofrecio JM,Wollam J,Hernandez-Carretero A,Fu W,Li P,Olefsky JM</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.cell.2017.08.035">http://dx.doi.org/10.1016/j.cell.2017.08.035</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate that topical application of the TLR7 agonist imiquimod can enhance T-cell responses to intracranial tumors as a single agent in mice.</p> <p>Journal of immunotherapy (Hagerstown, Md. : 1997) ( 2011; 34: 264)</p> <p><b>"Topical imiquimod has therapeutic and immunomodulatory effects against intracranial tumors."</b></p> <p>Author(s):Xiong Z,Ohlfest JR</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1097/CJI.0b013e318209eed4">http://dx.doi.org/10.1097/CJI.0b013e318209eed4</a></p>
Mouse / 1:500	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate a unique mechanism by which ectopic microRNA-103 can manipulate tumour-associated endothelial cells to enhance tumour cell death.</p> <p>Nature communications ( 2016; 7: )</p> <p><b>"MicroRNA regulation of endothelial TREX1 reprograms the tumour microenvironment."</b></p> <p>Author(s):Wilson R,Espinosa-Diez C,Kanner N,Chatterjee N,Ruhl R,Hipfinger C,Advani SJ,Li J,Khan OF,Franovic A,Weis SM,Kumar S,Coussens LM,Anderson DG,Chen CC,Cheresh DA,Anand S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/ncomms13597">http://dx.doi.org/10.1038/ncomms13597</a></p>

	<p>25-0451 was used in Flow cytometry/Cell sorting to provide evidence that an immunometabolic crosstalk between islet-derived IL-33, ILC2s, and myeloid cells fosters insulin secretion.</p>
Mouse / Not Cited	<p>Immunity ( 2017; 47: 928)  <b>"Interleukin-33-Activated Islet-Resident Innate Lymphoid Cells Promote Insulin Secretion through Myeloid Cell Retinoic Acid Production."</b>            Author(s):Dalmas E,Lehmann FM,Dror E,Wueest S,Thienel C,Borsigova M,Stawiski M,Traunecker E,Lucchini FC,Dapito DH,Kallert SM,Guigas B,Pattou F,Kerr-Conte J,Maechler P,Girard JP,Konrad D,Wolfrum C,Böni-Schnetzler M,Finke D, Donath MY            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.immuni.2017.10.015">http://dx.doi.org/10.1016/j.immuni.2017.10.015</a></p>
	<p>25-0451-82 was used in Flow cytometry/Cell sorting to suggest that P140 belongs to a new family of non-immunosuppressive immunoregulators that do not correct T and B cell abnormalities but rather contribute to the clearance of deleterious T and B cells.</p>
Mouse / Not Cited	<p>Frontiers in immunology ( 2022; 13: )  <b>"P140 Peptide Leads to Clearance of Autoreactive Lymphocytes and Normalizes Immune Response in Lupus-Prone Mice."</b>            Author(s):Schall N,Talamini L,Wilhelm M,Jouvin-Marche E,Muller S            PubMed Article URL:<a href="http://dx.doi.org/10.3389/fimmu.2022.904669">http://dx.doi.org/10.3389/fimmu.2022.904669</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to illustrate a key role for the vascular adhesion molecule JAM-C in controlling leukocyte migration and subsequent immune events in response to pathogen infections.</p>
Mouse / Not Cited	<p>PLoS pathogens ( 2014; 10: )  <b>"Blocking junctional adhesion molecule C enhances dendritic cell migration and boosts the immune responses against Leishmania major."</b>            Author(s):Ballet R,Emre Y,Jemelin S,Charmoy M,Tacchini-Cottier F,Imhof BA            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.ppat.1004550">http://dx.doi.org/10.1371/journal.ppat.1004550</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to provide data to show the existence of multi-potent mammary progenitor cells that have pregnancy-specific function.</p>
Mouse / Not Cited	<p>Breast cancer research : BCR ( 2014; 15: )  <b>"Evidence for a multipotent mammary progenitor with pregnancy-specific activity."</b>            Author(s):Kaanta AS,Virtanen C,Selfors LM,Brugge JS,Neel BG            PubMed Article URL:<a href="http://dx.doi.org/10.1186/bcr3459">http://dx.doi.org/10.1186/bcr3459</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to study the inhibition of dendritic cell migration in the skin and the attenuation of contact hypersensitivity responses via Resolvin E1.</p>
Mouse / Not Cited	<p>The Journal of experimental medicine ( 2015; 212: 1921)  <b>"Resolvin E1 inhibits dendritic cell migration in the skin and attenuates contact hypersensitivity responses."</b>            Author(s):Sawada Y,Honda T,Hanakawa S,Nakamizo S,Murata T,Ueharaguchi-Tanada Y,Ono S,Amano W,Nakajima S, Egawa G,Tanizaki H,Otsuka A,Kitoh A,Dainichi T,Ogawa N,Kobayashi Y,Yokomizo T,Arita M,Nakamura M,Miyachi Y, Kabashima K            PubMed Article URL:<a href="http://dx.doi.org/10.1084/jem.20150381">http://dx.doi.org/10.1084/jem.20150381</a></p>
	<p>25-0451-82 was used in Flow Cytometry to uncover a critical role for mTORC2 in setting SWAT lipid handling capacity.</p>
Mouse / Not Cited	<p>Cell reports ( 2020; 33: )  <b>"The Lipid Handling Capacity of Subcutaneous Fat Is Programmed by mTORC2 during Development."</b>            Author(s):Hsiao WY,Jung SM,Tang Y,Haley JA,Li R,Li H,Calejman CM,Sanchez-Gurmaches J,Hung CM,Luciano AK, DeMambro V,Wellen KE,Rosen CJ,Zhu LJ,Guertin DA            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.celrep.2020.108223">http://dx.doi.org/10.1016/j.celrep.2020.108223</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to show that Nestin is a useful marker for the identification of functional BMSCs and indicate that Nestin+ BMSCs could be a better therapeutic candidate for cardiac repair.</p>
Mouse / Not Cited	<p>Stem cell research &amp; therapy ( 2019; 10: )  <b>"Bone-derived Nestin-positive mesenchymal stem cells improve cardiac function via recruiting cardiac endothelial cells after myocardial infarction."</b>            Author(s):Lu D,Liao Y,Zhu SH,Chen QC,Xie DM,Liao JJ,Feng X,Jiang MH,He W            PubMed Article URL:<a href="http://dx.doi.org/10.1186/s13287-019-1217-x">http://dx.doi.org/10.1186/s13287-019-1217-x</a></p>
	<p>25-0451 was used in Flow cytometry/Cell sorting to study Kupffer cell-mediated potentiation of liver sinusoidal endothelial cell injury in sepsis by ligating programmed cell death ligand-1.</p>
Mouse / Not Cited	<p>Journal of leukocyte biology ( 2013; 94: 963)  <b>"Kupffer cells potentiate liver sinusoidal endothelial cell injury in sepsis by ligating programmed cell death ligand-1."</b>            Author(s):Hutchins NA,Wang F,Wang Y,Chung CS,Ayala A            PubMed Article URL:<a href="http://dx.doi.org/10.1189/jlb.0113051">http://dx.doi.org/10.1189/jlb.0113051</a></p>

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	25-0451 was used in Flow cytometry/Cell sorting to show that Notch signalling can be both tumour suppressive and pro-tumorigenic in small-cell lung cancer.
Mouse / 1:100	<p>Nature ( 2017; 545: 360)</p> <p><b>"Intratumoural heterogeneity generated by Notch signalling promotes small-cell lung cancer."</b></p> <p>Author(s):Lim JS,Ibaseta A,Fischer MM,Cancilla B,O'Young G,Cristea S,Luca VC,Yang D,Jahchan NS,Hamard C,Antoine M,Wislez M,Kong C,Cain J,Liu YW,Kapoun AM,Garcia KC,HoeY T,Murriel CL,Sage J</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/nature22323">http://dx.doi.org/10.1038/nature22323</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate that the microglial inflammatory response during epileptogenesis is complex, varies between models, and appears to correlate with chronic seizure frequency.</p> <p>Epilepsia ( 2015; 56: 895)</p> <p><b>"Complex alterations in microglial M1/M2 markers during the development of epilepsy in two mouse models."</b></p> <p>Author(s):Benson MJ,Manzanero S,Borges K</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1111/epi.12960">http://dx.doi.org/10.1111/epi.12960</a></p>
Mouse / 1:400	<p>25-0451-82 was used in Flow Cytometry to show that bone marrow sinusoidal endothelial cells actively control erythropoiesis.</p> <p>Nature communications ( 2021; 12: )</p> <p><b>"Bone marrow sinusoidal endothelium controls terminal erythroid differentiation and reticulocyte maturation."</b></p> <p>Author(s):Heil J,Olsavszky V,Busch K,Klapproth K,de la Torre C,Sticht C,Sandorski K,Hoffmann J,Schönhaber H,Zierow J,Winkler M,Schmid CD,Staniczek T,Daniels DE,Frayne J,Metzgeroth G,Nowak D,Schneider S,Neumaier M,Weyer V,Groden C,Gröne HJ,Richter K,Mogler C,Taketo MM,Schledzewski K,Géraud C,GoerdT S,Koch PS</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-021-27161-3">http://dx.doi.org/10.1038/s41467-021-27161-3</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to describe a protocol to obtain mature and functional M from healthy as well as disease-specific murine iPSCs.</p> <p>Stem cell reports ( 2016; 7: 292)</p> <p><b>"Murine iPSC-Derived Macrophages as a Tool for Disease Modeling of Hereditary Pulmonary Alveolar Proteinosis due to Csf2rb Deficiency."</b></p> <p>Author(s):Mucci A,Kunkiel J,Suzuki T,Brennig S,Glage S,Kühnel MP,Ackermann M,Happle C,Kuhn A,Schambach A,Trapnell BC,Hansen G,Moritz T,Lachmann N</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.stemcr.2016.06.011">http://dx.doi.org/10.1016/j.stemcr.2016.06.011</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to suggest that stromal fibroblasts expressing cadherin-11 regulate adipose tissue inflammation.</p> <p>The Journal of clinical investigation ( 2017; 127: 3300)</p> <p><b>"Stromal cell cadherin-11 regulates adipose tissue inflammation and diabetes."</b></p> <p>Author(s):Chang SK,Kohlgruber AC,Mizoguchi F,Michelet X,Wolf BJ,Wei K,Lee PY,Lynch L,Duquette D,Ceperuelo-Mallafre V,Banks AS,Brenner MB</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1172/JCI86881">http://dx.doi.org/10.1172/JCI86881</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to provide "proof-of-concept" for the development of a cryptococcal vaccine that provides cross-protection against multiple disparate serotypes of Cryptococcus.</p> <p>Frontiers in immunology ( 2019; 8: )</p> <p><b>"Induction of Broad-Spectrum Protective Immunity against Disparate <i>Cryptococcus</i> Serotypes."</b></p> <p>Author(s):Van Dyke MCC,Chaturvedi AK,Hardison SE,Leopold Wager CM,Castro-Lopez N,Hole CR,Wozniak KL,Wormley FL</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.3389/fimmu.2017.01359">http://dx.doi.org/10.3389/fimmu.2017.01359</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate how bone marrow endothelial cells supply miR-126 to leukemia stem cells in chronic myelogenous leukemia which modulates their quiescence and self-renewal.</p> <p>Nature medicine ( 2018; 24: 450)</p> <p><b>"Bone marrow niche trafficking of miR-126 controls the self-renewal of leukemia stem cells in chronic myelogenous leukemia."</b></p> <p>Author(s):Zhang B,Nguyen LXT,Li L,Zhao D,Kumar B,Wu H,Lin A,Pellicano F,Hopcroft L,Su YL,Copland M,Holyoake TL,Kuo CJ,Bhatia R,Snyder DS,Ali H,Stein AS,Brewer C,Wang H,McDonald T,Swiderski P,TroadeC E,Chen CC,Dorrance A,Pullarkat V,Yuan YC,Perrotti D,Carlesso N,Forman SJ,Kortylewski M,Kuo YH,Marcucci G</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/nm.4499">http://dx.doi.org/10.1038/nm.4499</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate the existence of melanoma cells that fulfil the criteria for CSCs.</p> <p>Stem cells (Dayton, Ohio) ( 2012; 30: 2100)</p> <p><b>"ALDH1A isozymes are markers of human melanoma stem cells and potential therapeutic targets."</b></p> <p>Author(s):Luo Y,Dallaglio K,Chen Y,Robinson WA,Robinson SE,McCarter MD,Wang J,Gonzalez R,Thompson DC,Norris DA,Roop DR,Vasiliou V,Fujita M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1002/stem.1193">http://dx.doi.org/10.1002/stem.1193</a></p>

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Mouse / Not Cited	PloS one ( 2014; 8: ) <b>"Ectopic Runx1 expression rescues Tal-1-deficiency in the generation of primitive and definitive hematopoiesis."</b> Author(s):Tornack J,Seiler K,Grützkau A,Grün JR,Onodera M,Melchers F,Tsuneto M PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0070116">http://dx.doi.org/10.1371/journal.pone.0070116</a>

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	25-0451 was used in Flow cytometry/Cell sorting to indicate that S.mansoni cercariae and their excretory/secretory products act directly upon epidermal keratinocytes.
Mouse / Not Cited	<p>International journal for parasitology ( 2015; 45: 215)  <b>"Epidermal keratinocytes initiate wound healing and pro-inflammatory immune responses following percutaneous schistosome infection."</b>            Author(s):Bourke CD,Prendergast CT,Sanin DE,Oulton TE,Hall RJ,Mountford AP            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.ijpara.2014.11.002">http://dx.doi.org/10.1016/j.ijpara.2014.11.002</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate how the LTbetaR pathway has a major role in shaping the immunological characteristics and overall integrity of the arterial wall.</p> <p>The Journal of experimental medicine ( 2009; 206: 233)  <b>"Lymphotoxin beta receptor signaling promotes tertiary lymphoid organogenesis in the aorta adventitia of aged ApoE-/- mice."</b>            Author(s):Gräbner R,Lötzer K,Döpping S,Hildner M,Radke D,Beer M,Spanbroek R,Lippert B,Reardon CA,Getz GS,Fu YX,Hehlgans T,Mebius RE,van der Wall M,Kruspe D,Englert C,Lovas A,Hu D,Randolph GJ,Weih F,Habenicht AJ            PubMed Article URL:<a href="http://dx.doi.org/10.1084/jem.20080752">http://dx.doi.org/10.1084/jem.20080752</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate whether mesechymal cells arise from neural crest or mesoderm, revealing the origins and properties of dental, thymic, and bone marrow mesenchymal cells.</p> <p>PloS one ( 2013; 7: )  <b>"Origins and properties of dental, thymic, and bone marrow mesenchymal cells and their stem cells."</b>            Author(s):Komada Y,Yamane T,Kadota D,Isono K,Takakura N,Hayashi S,Yamazaki H            PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0046436">http://dx.doi.org/10.1371/journal.pone.0046436</a></p>
Mouse / Not Cited	<p>25-0451-82 was used in Flow Cytometry to show that the Kupffer cell niche is composed of stellate cells, hepatocytes, and endothelial cells that together imprint the liver-specific macrophage identity.</p> <p>Immunity ( 2019; 51: 638)  <b>"Stellate Cells, Hepatocytes, and Endothelial Cells Imprint the Kupffer Cell Identity on Monocytes Colonizing the Liver Macrophage Niche."</b>            Author(s):Bonnardel J,T'Jonck W,Gaublomme D,Browaeyts R,Scott CL,Martens L,Vanneste B,De Prijck S,Nedospasov SA,Kremer A,Van Hamme E,Borghgraef P,Toussaint W,De Bleser P,Mannaerts I,Beschin A,van Grunsven LA,Lambrecht BN,Taghon T,Lippens S,Elwaut D,Saeyts Y,Guilliams M            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.immuni.2019.08.017">http://dx.doi.org/10.1016/j.immuni.2019.08.017</a></p>
Mouse / 1:200	<p>25-0451 was used in Flow cytometry/Cell sorting to indicate that biomimetic 3D matrices allow for co-cultivation and activation of primary microglia and T cells and provide useful tools to study their interaction in vitro.</p> <p>The European journal of neuroscience ( 2021; 53: 4034)  <b>"Construction of a 3D brain extracellular matrix model to study the interaction between microglia and T cells in co-culture."</b>            Author(s):Frühau M,Zeitschel U,Höfling C,Ullm F,Rabiger FV,Alber G,Pompe T,Müller U,Roßner S            PubMed Article URL:<a href="http://dx.doi.org/10.1111/ejn.14978">http://dx.doi.org/10.1111/ejn.14978</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate how signals through CD30 and OX40 may be required for the survival of CD4+ T cells within the gut lamina propria.</p> <p>Journal of immunology (Baltimore, Md. : 1950) ( 2009; 183: 5079)  <b>"The survival of memory CD4+ T cells within the gut lamina propria requires OX40 and CD30 signals."</b>            Author(s):Withers DR,Jaensson E,Gaspal F,McConnell FM,Eksteen B,Anderson G,Agace WW,Lane PJL            PubMed Article URL:<a href="http://dx.doi.org/10.4049/jimmunol.0901514">http://dx.doi.org/10.4049/jimmunol.0901514</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to highlight considerable heterogeneity within the macrophage pool and suggest a need for more specific macrophage targeting strategies in metabolic-associated fatty liver disease (MAFLD).</p> <p>Immunity ( 2020; 53: 641)  <b>"Osteopontin Expression Identifies a Subset of Recruited Macrophages Distinct from Kupffer Cells in the Fatty Liver."</b>            Author(s):Remmerie A,Martens L,Thoné T,Castoldi A,Seurinck R,Pavie B,Roels J,Vanneste B,De Prijck S,Vanhoeckhout M,Binte Abdul Latib M,Devisscher L,Hoorens A,Bonnardel J,Vandamme N,Kremer A,Borghgraef P,Van Vlierberghe H,Lippens S,Pearce E,Saeyts Y,Scott CL            PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.immuni.2020.08.004">http://dx.doi.org/10.1016/j.immuni.2020.08.004</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to reveal a tumor-inhibiting role for LYG1 through promoting the activation, proliferation, and function of CD4+T cells in antitumor immune responses, offering implications for novel tumor immunotherapy.</p> <p>Oncoimmunology ( 2021; 6: )  <b>"LYG1 exerts antitumor function through promoting the activation, proliferation, and function of CD4&lt;sup&gt;+&lt;/sup&gt; T cells."</b>            Author(s):Liu H,Zhang Y,Liu Z,Wang P,Mo X,Fu W,Liu W,Cheng Y,Han W            PubMed Article URL:<a href="http://dx.doi.org/10.1080/2162402X.2017.1292195">http://dx.doi.org/10.1080/2162402X.2017.1292195</a></p>

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	25-0451 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.
Mouse / Not Cited	<p>The Journal of experimental medicine ( 2012; 209: 2215)</p> <p><b>"Nucleoside salvage pathway kinases regulate hematopoiesis by linking nucleotide metabolism with replication stress."</b></p> <p>Author(s):Austin WR,Armijo AL,Campbell DO,Singh AS,Hsieh T,Nathanson D,Herschman HR,Phelps ME,Witte ON,Czernin J,Radu CG</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1084/jem.20121061">http://dx.doi.org/10.1084/jem.20121061</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to show that significantly more CD8(+) T cells, neutrophils, and macrophages are recruited to postcapillary venules during ECM compared to hyperparasitemia.</p>
Mouse / Not Cited	<p>PLoS pathogens ( 2014; 10: )</p> <p><b>"Experimental cerebral malaria pathogenesis--hemodynamics at the blood brain barrier."</b></p> <p>Author(s):Nacer A,Movila A,Soheet F,Girgis NM,Gundra UM,Loke P,Daneman R,Frevert U</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.ppat.1004528">http://dx.doi.org/10.1371/journal.ppat.1004528</a></p>
Mouse / Not Cited	<p>25-0451-82 was used in Flow Cytometry to create a detailed atlas of &gt;32,000 single-endothelial cell transcriptomes.</p>
Mouse / Not Cited	<p>Cell ( 2020; 180: 764)</p> <p><b>"Single-Cell Transcriptome Atlas of Murine Endothelial Cells."</b></p> <p>Author(s):Kalucka J,de Rooij LPMH,Goveia J,Rohlenova K,Dumas SJ,Meta E,Concinha NV,Taverna F,Teuwen LA,Veys K,García-Caballero M,Khan S,Geldhof V,Sokol L,Chen R,Treps L,Borri M,de Zeeuw P,Dubois C,Karakach TK,Falkenberg KD,Parys M,Yin X,Vinckier S,Du Y,Fenton RA,Schoonjans L,Dewerchin M,Eelen G,Thienpont B,Lin L,Bolund L,Li X,Luo Y,Carmeliet P</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.cell.2020.01.015">http://dx.doi.org/10.1016/j.cell.2020.01.015</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate the effect of prolonged expression of transgenic p16INK4a in the mouse epidermis and the pathways involved in this effect.</p>
Mouse / Not Cited	<p>Nature communications ( 2020; 11: )</p> <p><b>"Chronic expression of p16<sup>INK4a</sup> in the epidermis induces Wnt-mediated hyperplasia and promotes tumor initiation."</b></p> <p>Author(s):Azazmeh N,Assouline B,Winter E,Ruppo S,Nevo Y,Maly A,Meir K,Witkiewicz AK,Cohen J,Rizou SV,Pikarsky E,Luxenburg C,Gorgoulis VG,Ben-Porath I</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-020-16475-3">http://dx.doi.org/10.1038/s41467-020-16475-3</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate the efficacy of immune-modulatory interleukin-21 combined with checkpoint blockade in several syngeneic mouse tumor models.</p>
Mouse / Not Cited	<p>Oncoimmunology ( 2021; 7: )</p> <p><b>"Interleukin-21 combined with PD-1 or CTLA-4 blockade enhances antitumor immunity in mouse tumor models."</b></p> <p>Author(s):Lewis KE,Selby MJ,Masters G,Valle J,Dito G,Curtis WR,Garcia R,Mink KA,Waggie KS,Holdren MS,Grosso JF,Korman AJ,Jure-Kunkel M,Dillon SR</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1080/2162402X.2017.1377873">http://dx.doi.org/10.1080/2162402X.2017.1377873</a></p>
Mouse / 1:200	<p>25-0451 was used in Flow cytometry/Cell sorting to identify that different subtypes of endothelial cells exist in capillaries, and that some may be able to perform slightly different jobs during lung recovery.</p>
Mouse / 1:200	<p>eLife ( 2020; 9: )</p> <p><b>"Defining the role of pulmonary endothelial cell heterogeneity in the response to acute lung injury."</b></p> <p>Author(s):Niethamer TK,Stabler CT,Leach JP,Zepp JA,Morley MP,Babu A,Zhou S,Morrissey EE</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.7554/eLife.53072">http://dx.doi.org/10.7554/eLife.53072</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to report that M2-like macrophages, create a microenvironment that inhibits proliferation of adipocyte progenitors due to the secretion of TGF-1.</p>
Mouse / Not Cited	<p>Nature communications ( 2017; 8: )</p> <p><b>"CD206<sup>+</sup> M2-like macrophages regulate systemic glucose metabolism by inhibiting proliferation of adipocyte progenitors."</b></p> <p>Author(s):Nawaz A,Aminuddin A,Kado T,Takikawa A,Yamamoto S,Tsuneayama K,Igarashi Y,Ikutani M,Nishida Y,Nagai Y,Takatsu K,Imura J,Sasahara M,Okazaki Y,Ueki K,Okamura T,Tokuyama K,Ando A,Matsumoto M,Mori H,Nakagawa T,Kobayashi N,Saeki K,Usui I,Fujisaka S,Tobe K</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-017-00231-1">http://dx.doi.org/10.1038/s41467-017-00231-1</a></p>
Mouse / 1:160	<p>25-0451 was used in Flow cytometry/Cell sorting to develop a method for the simultaneous isolation of homogenous populations of mesenchymal stem or stromal cells and endothelial progenitor cells from murine bone marrow.</p>
Mouse / 1:160	<p>Experimental and therapeutic medicine ( 2018; 16: 5171)</p> <p><b>"Simultaneous isolation of mesenchymal stem cells and endothelial progenitor cells derived from murine bone marrow."</b></p> <p>Author(s):Wang X,Zhao Z,Zhang H,Hou J,Feng W,Zhang M,Guo J,Xia J,Ge Q,Chen X,Wu X</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.3892/etm.2018.6844">http://dx.doi.org/10.3892/etm.2018.6844</a></p>

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	25-0451 was used in Flow cytometry/Cell sorting to identify FGF receptor signalling as a critical regulator of vascular development.
Mouse / Not Cited	<p>Nature ( 2017; 545: 224)</p> <p><b>"FGF-dependent metabolic control of vascular development."</b></p> <p>Author(s):Yu P,Wilhelm K,Dubrac A,Tung JK,Alves TC,Fang JS,Xie Y,Zhu J,Chen Z,De Smet F,Zhang J,Jin SW,Sun L,Sun H,Kibbey RG,Hirschi KK,Hay N,Carmeliet P,Chittenden TW,Eichmann A,Potente M,Simons M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/nature22322">http://dx.doi.org/10.1038/nature22322</a></p>
	25-0451-82 was used in Flow cytometry/Cell sorting to report that APBA3-deficient mice show reduced metastasis, with no apparent effect on primary tumor growth.
Mouse / 1:200	<p>Proceedings of the National Academy of Sciences of the United States of America ( 2017; 114: E4416)</p> <p><b>"Control of metastatic niche formation by targeting APBA3/Mint3 in inflammatory monocytes."</b></p> <p>Author(s):Hara T,Nakaoka HJ,Hayashi T,Mimura K,Hoshino D,Inoue M,Nagamura F,Murakami Y,Seiki M,Sakamoto T</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1073/pnas.1703171114">http://dx.doi.org/10.1073/pnas.1703171114</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to investigate a role for caspase-11 and caspase-12 in obesity and insulin resistance.
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) ( 2016; 196: 437)</p> <p><b>"Caspase-12, but Not Caspase-11, Inhibits Obesity and Insulin Resistance."</b></p> <p>Author(s):Skeldon AM,Morizot A,Douglas T,Santoro N,Kursawe R,Kozlitina J,Caprio S,Mehal WZ,Saleh M</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.4049/jimmunol.1501529">http://dx.doi.org/10.4049/jimmunol.1501529</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to study the angiogenic and metabolic gene expression profile of endothelial cells from a diabetes model.
Mouse / 1:100	<p>Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology ( 2019; 52: 503)</p> <p><b>"Establishing a Link between Endothelial Cell Metabolism and Vascular Behaviour in a Type 1 Diabetes Mouse Model."</b></p> <p>Author(s):Silva C,Sampaio-Pinto V,Andrade S,Rodrigues I,Costa R,Guerreiro S,Carvalho E,Pinto-do-Ó P,Nascimento DS,Soares R</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.33594/000000036">http://dx.doi.org/10.33594/000000036</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to provide insights into the mechanisms regulating senescence in regenerating muscle.
Mouse / Not Cited	<p>Nature communications ( 2015; 6: )</p> <p><b>"Numb is required to prevent p53-dependent senescence following skeletal muscle injury."</b></p> <p>Author(s):Le Roux I,Konge J,Le Cam L,Flamant P,Tajbakhsh S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/ncomms9528">http://dx.doi.org/10.1038/ncomms9528</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to uncover a key resource for functional analyses of miRNAs in skeletal myogenesis and in the regulation of stem cell self-renewal and tissue homeostasis.
Mouse / 1:100	<p>Scientific reports ( 2018; 8: )</p> <p><b>"Small-RNA sequencing identifies dynamic microRNA deregulation during skeletal muscle lineage progression."</b></p> <p>Author(s):Castel D,Baghdadi MB,Mella S,Gayraud-Morel B,Marty V,Cavaillé J,Antoniewski C,Tajbakhsh S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41598-018-21991-w">http://dx.doi.org/10.1038/s41598-018-21991-w</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to show that C5aR1 is an inflammatory mediator and may play a role in epileptogenesis.
Mouse / Not Cited	<p>Epilepsia ( 2017; 58: e54)</p> <p><b>"The effects of C5aR1 on leukocyte infiltration following pilocarpine-induced status epilepticus."</b></p> <p>Author(s):Benson MJ,Manzanero S,Borges K</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1111/epi.13698">http://dx.doi.org/10.1111/epi.13698</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to study the fate of cells expressing the Notch2 receptor paralogue, uncovering two novel mammary epithelial cell linages.
Mouse / Not Cited	<p>Nature cell biology ( 2013; 15: 451)</p> <p><b>"Notch2 genetic fate mapping reveals two previously unrecognized mammary epithelial lineages."</b></p> <p>Author(s):Sale S,Lafkas D,Artavanis-Tsakonas S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/ncb2725">http://dx.doi.org/10.1038/ncb2725</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to investigate alloantigen-specific regulatory T cells generated with a chimeric antigen receptor.
Mouse / Not Cited	<p>The Journal of clinical investigation ( 2016; 126: 1413)</p> <p><b>"Alloantigen-specific regulatory T cells generated with a chimeric antigen receptor."</b></p> <p>Author(s):MacDonald KG,Hoepli RE,Huang Q,Gillies J,Luciani DS,Orban PC,Broadly R,Levings MK</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1172/JCI82771">http://dx.doi.org/10.1172/JCI82771</a></p>

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	25-0451 was used in Flow cytometry/Cell sorting to reveal an unexpected contribution of Mfn2 to ROS production and inflammation in macrophages.
Mouse / Not Cited	<p>Cell reports ( 2020; 32: )</p> <p><b>"Mitofusin 2 in Macrophages Links Mitochondrial ROS Production, Cytokine Release, Phagocytosis, Autophagy, and Bactericidal Activity."</b></p> <p>Author(s):Tur J,Pereira-Lopes S,Vico T,Marín EA,Muñoz JP,Hernández-Alvarez M,Cardona PJ,Zorzano A,Lloberas J, Celada A</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.celrep.2020.108079">http://dx.doi.org/10.1016/j.celrep.2020.108079</a></p>
Mouse / 1:1000	<p>25-0451 was used in Flow cytometry/Cell sorting to establish a framework for adipose tissue development to explain body fat patterning variations in lipodystrophic or obese humans.</p> <p>Nature communications ( 2014; 5: )</p> <p><b>"Adipocytes arise from multiple lineages that are heterogeneously and dynamically distributed."</b></p> <p>Author(s):Sanchez-Gurmaches J,Guertin DA</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/ncomms5099">http://dx.doi.org/10.1038/ncomms5099</a></p>
Mouse / 1:200	<p>25-0451 was used in Flow cytometry/Cell sorting to disentangle how CNS environment and ontogeny specify microglial identity.</p> <p>Neuron ( 2018; 98: 1170)</p> <p><b>"A Combination of Ontogeny and CNS Environment Establishes Microglial Identity."</b></p> <p>Author(s):Bennett FC,Bennett ML,Yaqoob F,Mulinyawe SB,Grant GA,Hayden Gephart M,Plowey ED,Barres BA</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neuron.2018.05.014">http://dx.doi.org/10.1016/j.neuron.2018.05.014</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to characterise extraocular muscle cells and assess their potential as a cell-based therapy to combat skeletal muscle wasting.</p> <p>Developmental biology ( 2015; 397: 31)</p> <p><b>"Extraocular muscle satellite cells are high performance myo-engines retaining efficient regenerative capacity in dystrophin deficiency."</b></p> <p>Author(s):Stuelsatz P,Shearer A,Li Y,Muir LA,Ieronimakis N,Shen QW,Kirillova I,Yablonka-Reuveni Z</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.ydbio.2014.08.035">http://dx.doi.org/10.1016/j.ydbio.2014.08.035</a></p>
Mouse / 1:10,000	<p>25-0451 was used in Flow cytometry/Cell sorting to investigate CD8+ T-cell function by up-regulating programmed cell death-1 expression in chronic thoracic spinal cord injury.</p> <p>Journal of neuroinflammation ( 2014; 11: )</p> <p><b>"Chronic thoracic spinal cord injury impairs CD8+ T-cell function by up-regulating programmed cell death-1 expression."</b></p> <p>Author(s):Zha J,Smith A,Andreansky S,Bracchi-Ricard V,Bethea JR</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1186/1742-2094-11-65">http://dx.doi.org/10.1186/1742-2094-11-65</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to develop a new experimental model where Pb yeast cells are injected through the intraperitoneal route and mice are evaluated over 120 days of infection.</p> <p>PloS one ( 2017; 11: )</p> <p><b>"Severe Changes in Thymic Microenvironment in a Chronic Experimental Model of Paracoccidioidomycosis."</b></p> <p>Author(s):Alves da Costa T,Di Gangi R,Thomé R,Barreto Felisbino M,Pires Bonfanti A,Lumi Watanabe Ishikawa L,Sartori A,Burger E,Verinaud L</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0164745">http://dx.doi.org/10.1371/journal.pone.0164745</a></p>
Mouse / Not Cited	<p>25-0451 was used in Flow cytometry/Cell sorting to demonstrate the anti-inflammatory regulation of monocyte-derived macrophages by acting on type 1 interferon gene signalling.</p> <p>Cell reports ( 2020; 30: 4096)</p> <p><b>"SPHK2-Generated S1P in CD11b<sup>+</sup> Macrophages Blocks STING to Suppress the Inflammatory Function of Alveolar Macrophages."</b></p> <p>Author(s):Joshi JC,Joshi B,Rochford I,Rayees S,Akhter MZ,Baweja S,Chava KR,Tauseef M,Abdelkarim H,Natarajan V, Gaponenko V,Mehta D</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.celrep.2020.02.112">http://dx.doi.org/10.1016/j.celrep.2020.02.112</a></p>
Mouse / Not Cited	<p>25-0451-82 was used in Flow Cytometry to show drainage of gut-draining lymph nodes can resolve conflicting tolerogenic and inflammatory intestinal responses by encouraging antigen targeting to specific gut segments.</p> <p>Nature ( 2019; 569: 126)</p> <p><b>"Compartmentalized gut lymph node drainage dictates adaptive immune responses."</b></p> <p>Author(s):Esterházy D,Canesso MCC,Mesin L,Muller PA,de Castro TBR,Lockhart A,EIJalby M,Faria AMC,Mucida D</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41586-019-1125-3">http://dx.doi.org/10.1038/s41586-019-1125-3</a></p>

	25-0451 was used in Flow cytometry/Cell sorting to identify the AEP lineage as an evolutionarily conserved alveolar progenitor that represents a new target for human lung regeneration strategies.
Mouse / 1:200	<p>Nature ( 2018; 555: 251)</p> <p><b>"Regeneration of the lung alveolus by an evolutionarily conserved epithelial progenitor."</b></p> <p>Author(s):Zacharias WJ, Frank DB, Zepp JA, Morley MP, Alkhaleel FA, Kong J, Zhou S, Cantu E, Morrissey EE</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/nature25786">http://dx.doi.org/10.1038/nature25786</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to identify and characterise the differences between myogenic progenitors (satellite cells) in extraocular muscles to those of the limb and diaphragm of adult mice.
Mouse / Not Cited	<p>Developmental biology ( 2014; 385: 366)</p> <p><b>"Ancestral Myf5 gene activity in pericocular connective tissue identifies a subset of fibro/adipogenic progenitors but does not connote a myogenic origin."</b></p> <p>Author(s):Stuelsatz P, Shearer A, Yablonka-Reuveni Z</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.ydbio.2013.08.010">http://dx.doi.org/10.1016/j.ydbio.2013.08.010</a></p>
	25-0451 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><b>"Mesenchymal stem cells are mobilized from the bone marrow during inflammation."</b></p> <p>Author(s):Koning JJ, Kooij G, de Vries HE, Nolte MA, Mebius RE</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.3389/fimmu.2013.00049">http://dx.doi.org/10.3389/fimmu.2013.00049</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to indicate that the specialized gene expression profile of mature microglia requires continuous instructive signaling from the intact CNS.
Mouse / 1:250	<p>Neuron ( 2017; 94: 759)</p> <p><b>"Diverse Requirements for Microglial Survival, Specification, and Function Revealed by Defined-Medium Cultures."</b></p> <p>Author(s):Bohlen CJ, Bennett FC, Tucker AF, Collins HY, Mulinyawe SB, Barres BA</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.neuron.2017.04.043">http://dx.doi.org/10.1016/j.neuron.2017.04.043</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to demonstrate that NCOR1 is a critical regulator of macrophage inflammation and proliferation and that deficiency of NCOR1 in macrophages attenuates MI and neointimal hyperplasia.
Mouse / Not Cited	<p>Journal of the American Heart Association ( 2020; 9: )</p> <p><b>"Macrophage NCOR1 Deficiency Ameliorates Myocardial Infarction and Neointimal Hyperplasia in Mice."</b></p> <p>Author(s):Du LJ, Sun JY, Zhang WC, Wang YL, Zhu H, Liu T, Gao MZ, Zheng C, Zhang YY, Liu Y, Liu Y, Shao S, Zhang XQ, Leng Q, Auwerx J, Duan SZ</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1161/JAHA.120.015862">http://dx.doi.org/10.1161/JAHA.120.015862</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to conclude that an AMPK-LTBP4 axis in inflammatory macrophages controls the production of TGF-1, which is further activated by and acts on fibroblastic cells, leading to fibrosis in DMD.
Mouse / Not Cited	<p>Cell reports ( 2018; 25: 2163)</p> <p><b>"AMPK Activation Regulates LTBP4-Dependent TGF-1 Secretion by Pro-inflammatory Macrophages and Controls Fibrosis in Duchenne Muscular Dystrophy."</b></p> <p>Author(s):Juban G, Saclier M, Yacoub-Youssef H, Kernou A, Arnold L, Boisson C, Ben Larbi S, Magnan M, Cuvellier S, Théret M, Petrof BJ, Desguerre I, Gondin J, Mounier R, Chazaud B</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.celrep.2018.10.077">http://dx.doi.org/10.1016/j.celrep.2018.10.077</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to suggest that the earliest T cell progenitors represent a developmentally homogeneous progenitor pool that ensures the efficient generation of the first cohorts of T cells during thymus development.
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) ( 2011; 186: 5227)</p> <p><b>"Clonal analysis reveals uniformity in the molecular profile and lineage potential of CCR9(+) and CCR9(-) thymus-settling progenitors."</b></p> <p>Author(s):Desanti GE, Jenkinson WE, Parnell SM, Boudil A, Gautreau-Rolland L, Eksteen B, Ezine S, Lane PJ, Jenkinson EJ, Anderson G</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.4049/jimmunol.1002686">http://dx.doi.org/10.4049/jimmunol.1002686</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to test whether strategies that increase T-cell infiltration to tumours can be efficacious in enhancing immunotherapy response.
Mouse / Not Cited	<p>Clinical cancer research : an official journal of the American Association for Cancer Research ( 2016; 22: 4119)</p> <p><b>"HDAC Inhibitors Enhance T-Cell Chemokine Expression and Augment Response to PD-1 Immunotherapy in Lung Adenocarcinoma."</b></p> <p>Author(s):Zheng H, Zhao W, Yan C, Watson CC, Massengill M, Xie M, Massengill C, Noyes DR, Martinez GV, Afzal R, Chen Z, Ren X, Antonia SJ, Haura EB, Ruffell B, Beg AA</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1158/1078-0432.CCR-15-2584">http://dx.doi.org/10.1158/1078-0432.CCR-15-2584</a></p>

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	25045182 was used in flow cytometry to clarify the role of endocardial TBX20 in heart development
Mouse / 1:100	<p>The Journal of clinical investigation ( 2016; 126: 3023)</p> <p><b>"Probing chromatin landscape reveals roles of endocardial TBX20 in septation."</b></p> <p>Author(s):Boogerd CJ,Aneas I,Sakabe N,Dirschinger RJ,Cheng QJ,Zhou B,Chen J,Nobrega MA,Evans SM</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1172/JCI85350">http://dx.doi.org/10.1172/JCI85350</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to find Osx transcript and Osx protein expression early during hematopoiesis, in subsets of hematopoietic stem cells and multipotent progenitor populations.
Mouse / 1:400	<p>eLife ( 2020; 9: )</p> <p><b>"Osterix-Cre marks distinct subsets of CD45- and CD45+ stromal populations in extra-skeletal tumors with pro-tumorigenic characteristics."</b></p> <p>Author(s):Ricci B,Tycksen E,Celik H,Belle JI,Fontana F,Civitelli R,Faccio R</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.7554/eLife.54659">http://dx.doi.org/10.7554/eLife.54659</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to describe the concept of augmented synthetic lethality (ASL): depletion of a third gene product enhances a pre-existing synthetic lethal combination.
Mouse / 1:100	<p>Nature communications ( 2020; 11: )</p> <p><b>"Enhancing chemotherapy response through augmented synthetic lethality by co-targeting nucleotide excision repair and cell-cycle checkpoints."</b></p> <p>Author(s):Kong YW,Dreaden EC,Morandell S,Zhou W,Dhara SS,Sriram G,Lam FC,Patterson JC,Quadir M,Dinh A,Shopsowitz KE,Varmeh S,Yilmaz ÖH,Lippard SJ,Reinhardt HC,Hemann MT,Hammond PT,Yaffe MB</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-020-17958-z">http://dx.doi.org/10.1038/s41467-020-17958-z</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to provide a novel perspective on the interrelationships between adipocytes and mammary cells with implications for our understanding of obesity and breast cancer.
Mouse / Not Cited	<p>Molecular metabolism ( 2017; 6: 1198)</p> <p><b>"Brown adipocytes can display a mammary basal myoepithelial cell phenotype in vivo."</b></p> <p>Author(s):Li L,Li B,Li M,Niu C,Wang G,Li T,Król E,Jin W,Speakman JR</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.molmet.2017.07.015">http://dx.doi.org/10.1016/j.molmet.2017.07.015</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to study whether microglia are able to cross-present antigen to naive CD8(+) T cells within the brain microenvironment in vivo.
Mouse / Not Cited	<p>European journal of immunology ( 2013; 43: 1173)</p> <p><b>"Efficiently stimulated adult microglia cross-prime naive CD8+ T cells injected in the brain."</b></p> <p>Author(s):Jarry U,Jeannin P,Pineau L,Donnou S,Delneste Y,Couez D</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1002/eji.201243040">http://dx.doi.org/10.1002/eji.201243040</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to demonstrate the stimulatory effect of CD40L-overexpressing CAR T cells on innate and adaptive immune cells, and provide a rationale for using CD40L-overexpressing CAR T cells to improve immunotherapy responses.
Mouse / Not Cited	<p>Nature communications ( 2020; 11: )</p> <p><b>"CD103<sup>+</sup> cDC1 and endogenous CD8<sup>+</sup> T cells are necessary for improved CD40L-overexpressing CAR T cell antitumor function."</b></p> <p>Author(s):Kuhn NF,Lopez AV,Li X,Cai W,Daniyan AF,Brentjens RJ</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-020-19833-3">http://dx.doi.org/10.1038/s41467-020-19833-3</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to describe approaches for purification of microglia by fluorescence-activated cell sorting using microglia-specific surface markers and for enrichment of microglia by magnetic sorting and immunopanning.
Mouse / Not Cited	<p>Current protocols in immunology ( 2019; 125: )</p> <p><b>"Isolation and Culture of Microglia."</b></p> <p>Author(s):Bohlen CJ,Bennett FC,Bennett ML</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1002/cpim.70">http://dx.doi.org/10.1002/cpim.70</a></p>
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Mouse / Not Cited	<p>British journal of pharmacology ( 2023; 180: 1056)</p> <p><b>"Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function."</b></p> <p>Author(s):Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1111/bph.15993">http://dx.doi.org/10.1111/bph.15993</a></p>
	25-0451 was used in Flow cytometry/Cell sorting to investigate FGFR gene expression in quiescent SCs and their proliferating progeny, and its role in myogenesis.
Mouse / Not Cited	<p>Frontiers in aging neuroscience ( 2015; 7: )</p> <p><b>"Myogenic-specific ablation of Fgfr1 impairs FGF2-mediated proliferation of satellite cells at the myofiber niche but does not abolish the capacity for muscle regeneration."</b></p> <p>Author(s):Yablonka-Reuveni Z,Danoviz ME,Phelps M,Stuelsatz P</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.3389/fnagi.2015.00085">http://dx.doi.org/10.3389/fnagi.2015.00085</a></p>

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Nature communications ( 2019; 10: )  
**"NLRP3 inflammasome in fibroblasts links tissue damage with inflammation in breast cancer progression and metastasis."**  
Author(s):Ershaid N,Sharon Y,Doron H,Raz Y,Shani O,Cohen N,Monteran L,Leider-Trejo L,Ben-Shmuel A,Yassin M, Gerlic M,Ben-Baruch A,Pasmanik-Chor M,Apte R,Erez N  
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Neurology(R) neuroimmunology & neuroinflammation ( 2016; 3: )  
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Author(s):Lehmann-Horn K,Sagan SA,Winger RC,Spencer CM,Bernard CC,Sobel RA,Zamvil SS  
PubMed Article URL:<http://dx.doi.org/10.1212/NXI.0000000000000212>

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Cell death & disease ( 2018; 9: )  
**"Mesenchymal stromal cells-derived matrix Gla protein contribute to the alleviation of experimental colitis."**  
Author(s):Feng Y,Liao Y,Huang W,Lai X,Luo J,Du C,Lin J,Zhang Z,Qiu D,Liu Q,Shen H,Xiang AP,Zhang Q  
PubMed Article URL:<http://dx.doi.org/10.1038/s41419-018-0734-3>

1 Immunohistochemistry (PFA fixed) References

Species / Dilution	Summary
	25-0451-82 was used in Immunohistochemistry (PFA fixed) to validate the use of ip21-GFP mice as a new genetic tool for cell lineage-specific inhibition of cell proliferation in vivo.
Mouse / 1:400	Development (Cambridge, England) ( 2020; 147: ) <b>"A genetic system for tissue-specific inhibition of cell proliferation."</b> Author(s):Pu W,Han X,He L,Li Y,Huang X,Zhang M,Lv Z,Yu W,Wang QD,Cai D,Wang J,Sun R,Fei J, Ji Y,Nie Y,Zhou B PubMed Article URL: <a href="http://dx.doi.org/10.1242/dev.183830">http://dx.doi.org/10.1242/dev.183830</a>

1 Immunohistochemistry (Frozen) References

Species / Dilution	Summary
	25-0451 was used in Flow cytometry/Cell sorting to show that bone marrow-derived fibrocyte-like cells contribute to the acquired resistance to anti-angiogenic therapy with bevacizumab.
Mouse / Not Cited	Nature communications ( 2015; 6: ) <b>"Fibrocyte-like cells mediate acquired resistance to anti-angiogenic therapy with bevacizumab."</b> Author(s):Mitsuhashi A,Goto H,Saijo A,Trung VT,Aono Y,Ogino H,Kuramoto T,Tabata S,Uehara H,Izumi K,Yoshida M, Kobayashi H,Takahashi H,Gotoh M,Kakiuchi S,Hanibuchi M,Yano S,Yokomise H,Sakiyama S,Nishioka Y PubMed Article URL: <a href="http://dx.doi.org/10.1038/ncomms9792">http://dx.doi.org/10.1038/ncomms9792</a>

1 Immunocytochemistry References

Species / Dilution	Summary
	25-0451 was used in Immunohistochemistry to suggest that uNK cells may induce endothelial tip cell differentiation and promote non-planar vascular growth within early decidua basalis.
Mouse / Not Cited	PloS one ( 2013; 7: ) <b>"Delta-like ligand (DLL)1 expression in early mouse decidua and its localization to uterine natural killer cells."</b> Author(s):Degaki KY,Chen Z,Yamada AT,Croy BA PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0052037">http://dx.doi.org/10.1371/journal.pone.0052037</a>

1 Miscellaneous PubMed References

Species / Dilution	Summary
	25-0451 was used in Magnetic cell separation to show that during postnatal development, dietary vitamin A is essential for the induction of retinaldehyde dehydrogenases in mucosal DCs and MLN stromal cells.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) ( 2011; 186: 1934) <b>"Expression of retinaldehyde dehydrogenase enzymes in mucosal dendritic cells and gut-draining lymph node stromal cells is controlled by dietary vitamin A."</b> Author(s):Molenaar R,Knippenberg M,Goverse G,Olivier BJ,de Vos AF,O'Toole T,Mebius RE PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.1001672">http://dx.doi.org/10.4049/jimmunol.1001672</a>