CD25 Monoclonal Antibody (PC61.5), APC, eBioscience™

Catalog Number: 17-0251-81

**Product data sheet**

<table>
<thead>
<tr>
<th>Details</th>
<th>Species Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>50 µg</td>
</tr>
<tr>
<td><strong>Host/Isotope</strong></td>
<td>Rat / IgG1, lambda</td>
</tr>
<tr>
<td><strong>Class</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Antibody</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>PC61.5</td>
</tr>
<tr>
<td><strong>Conjugate</strong></td>
<td>APC</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>0.2 mg/mL</td>
</tr>
<tr>
<td><strong>Purification</strong></td>
<td>Affinity chromatography</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>PBS, pH 7.2</td>
</tr>
<tr>
<td><strong>Contains</strong></td>
<td>0.09% sodium azide</td>
</tr>
<tr>
<td><strong>Storage Conditions</strong></td>
<td>4°C, store in dark, DO NOT FREEZE!</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tested Applications</th>
<th>Dilution *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (Flow)</td>
<td>0.125 µg/test</td>
</tr>
</tbody>
</table>

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<tr>
<th>Published Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (Flow)</td>
</tr>
<tr>
<td>Immunocytochemistry (ICC/IF)</td>
</tr>
<tr>
<td>Functional Assay (FN)</td>
</tr>
</tbody>
</table>

**Species Reactivity**
- Species reactivity: Mouse
- Published species: Mouse, Human, Not Applicable

**Published Applications**
- Flow Cytometry (Flow)
- Immunocytochemistry (ICC/IF)
- Functional Assay (FN)

**Species Reactivity**
- Published species: Mouse, Human, Not Applicable

**Flow Cytometry (Flow)**
- Published Applications: See 179 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.

**Immunocytochemistry (ICC/IF)**
- Published Applications: See 1 publications below

**Functional Assay (FN)**
- Published Applications: See 3 publications below

**Product specific information**

Description: The PC61.5 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. Binding of IL-2 to both the high and low affinity classes of IL-2 receptor is inhibited by the PC61.5 antibody. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

Applications Reported: The PC61.5 antibody has been reported for use in flow cytometric analysis. Applications Tested: The PC61.5 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. Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser. Filtration: 0.2 µm post-manufacturing filtered.

**Background/Target Information**

CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimetric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and the IL2R gamma chain (IL2RG), constitute the high-affinity IL-2 receptor. Homodimeric IL2RA chains result in low-affinity receptor, while homodimeric IL2RB chains produce a medium-affinity receptor. The expression of IL2 in mature lymphocytes is monomeric, which represents an unusual regulatory mode for controlling the precise expression of a single gene. IL2 is primarily produced by mature T cells. IL2 plays an important role as a growth factor, differentiation factor, and regulator of cell death. IL-2 stimulates the proliferation of B cells, augments natural killer cell activity, and inhibits granulocyte macrophage colony formation. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests a role in the immune response to antigenic stimuli. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency.

CD25 Antibody (17-0251-81)

Staining of stimulated mouse splenocytes. As expected based on known expression patterns, CD25 clone PC61.5 staining is significantly increased in CD8+ T cells after stimulation. Details: Mouse splenocytes were unstimulated (blue histogram) or stimulated for 2 days with CD3 (clone 145-2C11), CD28 (clone 37.51), and Mouse IL-2 Recombinant Protein (purple histogram). After stimulation, cells were stained with CD8 (clone 53-6.7) and CD25 (clone PC61.5). Cells in the CD8+ gate were used for analysis. (TM)

CD25 Antibody (17-0251-81) in Flow

Staining of SJL splenocytes with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.06 µg of Anti-Mouse CD25 APC. Total viable cells were used for analysis.
17-0251-82 was used in Flow cytometry/Cell sorting to find a conserved and potentially targetable immunoregulatory program within DCs that associates with hyperinflammation and organ dysfunction early following sepsis induction.

**Theranostics** (Jul 2022; 12: 4606)

“Single-cell transcriptome profiling of the immune space-time landscape reveals dendritic cell regulatory program in polymicrobial sepsis.”

Author(s): Yao RQ,Li ZX,Wang LX,Yi YX,Zheng LY,Dong N,Wu Y,Xia ZF,Billian TR,Ren C,Yao YM

PubMed Article URL:http://dx.doi.org/10.7150/thno.72760

17-0251 was used in Flow cytometry/Cell sorting to observe the pathological characteristics of atherosclerotic plaques in the aortic walls of ApoE−/− and C57BL/6j mice and the changes of CD4+CD25+ regulatory T cells in atherosclerotic mice.

**Experimental biology and medicine** (Maywood, N.J.) (May 2017; 242: 918)

“Changes in CD4<sup>+</sup>-sup</sup>/CD25<sup>+</sup>-sup</sup> Tregs in the pathogenesis of atherosclerosis in ApoE<sup>-</sup>-/−<sup>-</sup> mice.”

Author(s): Xue-Mei L,Jie C,Xuan D,Xiao-Xing L,Chun-Lin H,Yu-Jie L

PubMed Article URL:http://dx.doi.org/10.1177/1535370216689826

17-0251 was used in Flow cytometry/Cell sorting to explore the participation of vasoactive intestinal peptide in the implantation sites of normal and pregnant prediabetic nonobese diabetic female mice.


“Potential immunomodulatory role of VIP in the implantation sites of prediabetic nonobese diabetic mice.”

Author(s): Roca V,Calafat M,Marocca L,Ramhorst R,Farina M,Franchi AM,Leiros CP

PubMed Article URL:http://dx.doi.org/10.1530/REP-09-0171

17-0251 was used in Flow cytometry/Cell sorting to study the use of the combination of melatonin, a neuroimmunomodulator molecule, and an indoleamine 2,3-dioxygenase inhibitor to improve the efficacy of an immune therapy targeting human papillomavirus.

**Frontiers in immunology** (Sep 2019; 9: )

“The Combined Use of Melatonin and an Indoleamine 2,3-Dioxygenase-1 Inhibitor Enhances Vaccine-Induced Protective Cellular Immunity to HPV16-Associated Tumors.”

Author(s): Moreno ACR, Porchia BFMM, Pagni RL, Souza PDC, Pegino R, Rodrigues KB, Barros TB, LPR MM, de Araújo EF, Calich VLG, Ferreira LCS

PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2018.01914

17-0251 was used in Flow cytometry/Cell sorting to explore the potential use of cell-autonomous role for autophagy in the regulation of CD8<sup>+</sup>- T-cell-mediated control of tumors.

**Nature immunology** (Feb 2017; 18: 173)

“Guidance of regulatory T cell development by Satb1-dependent super-enhancer establishment.”


PubMed Article URL:http://dx.doi.org/10.1038/ni.3646

17-0251 was used in Flow cytometry/Cell sorting to demonstrate a cell-autonomous role for autophagy in the regulation of CD8<sup>+</sup>- T-cell-mediated control of tumors.

**Cell reports** (Apr 2019; 27: 502)

“Autophagy Regulation of Metabolism Is Required for CD8<sup>+</sup>-sup</sup>/sup</sup> T-Cell Anti-tumor Immunity.”


PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2019.03.037

17-0251 was used in Flow cytometry/Cell sorting to study the Notch-Delta interactions that promote T cell development.

**The Journal of experimental medicine** (Feb 2007; 204: 331)

“Hierarchy of Notch-Delta interactions promoting T cell lineage commitment and maturation.”


PubMed Article URL:http://dx.doi.org/10.1084/jem.20061442
17-0251-82 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.

Mouse / Not Cited

Nature (May 2019; 569: 126)
"Compartmentalized gut lymph node drainage dictates adaptive immune responses."
Author(s): Esterhazy D, Canesso MCC, Mesin L, Muller PA, de Castro TBR, Lockhart A, ElJaiby M, Faria AMC, Mucida D
PubMed Article URL: http://dx.doi.org/10.1038/s41586-019-1125-3

17-0251-82 was used in Flow cytometry/Cell sorting to examine the potential mechanism by which obesity-induced visceral adipose tissue (VAT) inflammation.

Mouse / Not Cited

Arteriosclerosis, thrombosis, and vascular biology (Sep 2018; 38: 2103)
"Inhibiting Glycogen Synthase Kinase 3 Reverses Obesity-Induced White Adipose Tissue Inflammation by Regulating Apoptosis Inhibitor of Macrophage/CDS5-Mediated Macrophage Migration."
Author(s): Wang L, Wang Y, Zhang C, Li J, Meng Y, Dou M, Noguchi CT, DI L
PubMed Article URL: http://dx.doi.org/10.1161/ATVBHA.118.311363

17-0251 was used in Flow cytometry/Cell sorting to indicate that respiratory syncytial virus infection can increase C5a and C5aR expression in the pathogenesis of infected, asthmatic mice.

Mouse / Not Cited

Scientific reports (Nov 2017; 7:)
"Respiratory Syncytial Virus Exacerbates OVA-mediated asthma in mice through C5a-C5aR regulating CD4<sup>+</sup>T cells Immune Responses."
PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-15471-w

17-0251 was used in Flow cytometry/Cell sorting to investigate whether N(G)-nitro-L-arginine methyl ester and sildenafil, modulators of the arginine metabolism, can restore antitumor immunity.

Mouse / Not Cited

BMC immunology (Jan 2009; 10:)
"Modulators of arginine metabolism support cancer immunosurveillance."
Author(s): Capuano G, Rigamonti N, Grioni M, Freschi M, Bellone M
PubMed Article URL: http://dx.doi.org/10.1186/1471-2172-10-1

17-0251 was used in Flow cytometry/Cell sorting to compare CD4<sup>+</sup> T cell subsets after infection with the T.cruzi Y strain in susceptible and nonsusceptible mice.

Mouse / Not Cited

PloS one (Jan 2014; 8:)
"Analysis of the dynamics of infiltrating CD4<sup>+</sup> T cell subsets in the heart during experimental Trypanosoma cruzi infection."
Author(s): Sanoja C, Carbajosa S, Fresno M, Girones N
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0065820

17-0251 was used in Flow cytometry/Cell sorting to suggest that a loss of phagocytic function in a CX3CR1+ tissue-resident skeletal muscle macrophage population in old mice precludes satellite cell proliferation and recovery of skeletal muscle function after influenza A pneumonia.

Mouse / Not Cited

Aging cell (Sep 2020; 19:)
"Impaired phagocytic function in CX3CR1<sup>+</sup> tissue-resident skeletal muscle macrophages prevents muscle recovery after influenza A virus-induced pneumonia in old mice."
PubMed Article URL: http://dx.doi.org/10.1111/acel.13180

17-0251 was used in Flow cytometry/Cell sorting to demonstrate the therapeutic advantage of using an immunomodulatory mAb to regulate lymphoid cells, which then recruit and activate myeloid cells for enhanced killing of mAb-opsonized tumors.

Mouse / Not Cited

Cancer cell (Dec 2017; 32: 777)
"Antibody Tumor Targeting Is Enhanced by CD27 Agonists through Myeloid Recruitment."
PubMed Article URL: http://dx.doi.org/10.1016/j.ccell.2017.11.001
**Mouse / Not Cited**

**Journal of immunology (Baltimore, Md. : 1950)** (Jan 2010; 184: 725)

"Antigen aggregation decides the fate of the allergic immune response."

Author(s): Zaborsky N, Brunner M, Wallner M, Himly M, Karl T, Schwarzenbacher R, Ferreira F, Achatz G

PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0902080

**Mouse / Not Cited**

17-0251 was used in Flow cytometry to elucidate the molecular background of hypoallergenicity using Betula verrucosa.

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**Mouse / Not Cited**

17-0251-82 was used in Flow Cytometry to conclude that combined hEGFR and CD25-targeted NIR-PIT is a promising treatment for hEGFR expressing cancers in which Treg cells play an immunosuppressive role.

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**Mouse / Not Cited**

EBioMedicine (May 2021; 67: )

"Near-infrared photoimmunotherapy targeting human-EGFR in a mouse tumor model simulating current and future clinical trials."


PubMed Article URL: http://dx.doi.org/10.1016/j.ebiom.2021.103345

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**Mouse / Not Cited**

Journal of hematology & oncology (Jul 2016; 9: )

"Azacytidine mitigates experimental scleroderma chronic graft-versus-host disease."


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**Mouse / Not Cited**

The Journal of biological chemistry (Oct 2016; 291: 22524)

"Peroxisome Proliferator-activated Receptor-Activation Augments the Cell Unfolded Protein Response and Rescues Early Glycemic Deterioration and Cell Death in Non-obese Diabetic Mice."

Author(s): Maganti AV, Tersey SA, Syed F, Nelson JB, Colvin SC, Maier B, Mirmira RG

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M116.741694

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**Mouse / Not Cited**

Oncotarget (Oct 2015; 6: 28588)

"CD8+ T cells undergo activation and programmed death-1 repression in the liver of aged Ae2a,b-/- mice favoring autoimmune cholangitis."


PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.5665

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**Mouse / Not Cited**

Cancer gene therapy (Jul 2010; 17: 501)

"Effective immunotherapy of weakly immunogenic solid tumours using a combined immunogene therapy and regulatory T-cell inactivation."

Author(s): Whelan MC, Casey G, MacComnara M, Lederer JA, Soden D, Collins JK, Tangney M, O'Sullivan GC

PubMed Article URL: http://dx.doi.org/10.1038/cjt.2010.8

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**Mouse / Not Cited**

Oncotarget (Oct 2015; 6: 28588)

"CD8+ T cells undergo activation and programmed death-1 repression in the liver of aged Ae2a,b-/- mice favoring autoimmune cholangitis."


PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.5665

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**Mouse / Not Cited**

Journal of immunology (Baltimore, Md. : 1950) (Jan 2012; 188: 170)

"Arthritogenic self-reactive CD4+ T cells acquire an FR4hiCD73hi anergic state in the presence of Foxp3+ regulatory T cells."

Author(s): Martinez RJ, Zhang N, Thomas SR, Nandiwada SL, Jenkins MK, Binstadt BA, Mueller DL

PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1101311

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**Journal of Hematology & Oncology** (Jul 2016; 9: )

"Azacytidine mitigates experimental scleroderma chronic graft-versus-host disease."


17-0251 was used in Flow cytometry/Cell sorting to show that bone morphogenetic protein-4 causes immunosuppression by augmenting PD-L1 expression in the mesenchymal subset of lung cancer cells.

Mouse / 1:100
Oncomunioimmunology (Jan 2021; 5):
"Growth and metastasis of lung adenocarcinoma is potetiated by BMP4-mediated immunosuppression."
PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2016.1234570

17-0251 was used in Flow cytometry/Cell sorting to demonstrate that the coinhibitory B7-H1/programmed death 1 pathway can limit the expansion of T(FH) cells and constrain Ag-specific Ig responses.

Mouse / Not Cited
Journal of immunology (Baltimore, Md. : 1950) (May 2011; 186: 5648)
"Blockade of B7-H1 (programmed death ligand 1) enhances humoral immunity by positively regulating the generation of T follicular helper cells."
Author(s):Hams E,McCarron MJ,Amu S,Yagita H,Azuma M,Chen L,Fallon PG
PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1003161

17-0251 was used in Flow cytometry/Cell sorting to evaluate the effect of multi-antigenic construct expressing three peptides AHC in stabilising advanced atherosclerosis in Apobtm2Sgy/Ldirtm1Her/J mice.

Mouse / Not Cited
Scientific reports (Jun 2017; 7: )
"Immune regulation by oral tolerance induces alternate activation of macrophages and reduces markers of plaque destabilization in Apo<sup>+</sup>+<sup>sup></sup>/ldr<sup>-</sup>-sup>/im1Her/Jmice."
Author(s):Thota LN,Ponnusamy T,Philip S,Lu X,Mundkur L
PubMed Article URL:http://dx.doi.org/10.1038/s41598-017-04183-w

17-0251 was used in Flow cytometry/Cell sorting to demonstrate that pyruvate oxidation by T cell precursors is necessary for optimal T cell development.

Mouse / Not Cited
Cell reports (Mar 2020; 30: 2899)
"Mitochondrial Pyruvate Carrier 1 Promotes Peripheral T Cell Homeostasis through Metabolic Regulation of Thymic Development."
Author(s):Ramstead AG,Wallace JA,Lee SH,Bauer KM,Tang WW,Ekiz HA,Lane TE,Cluntun AA,Bettini ML,Round JL,Rutter J,O’Connell RM
PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2020.02.042

17-0251 was used in Flow cytometry/Cell sorting to investigate the interactions of insulin-specific T and B lymphocytes using T cell and B cell receptor transgenic mice.

Mouse / Not Cited
The Journal of experimental medicine (May 2016; 213: 967)
"Class-switched anti-insulin antibodies originate from unconventional antigen presentation in multiple lymphoid sites."
Author(s):Wan X,Thomas JW,Unanue ER
PubMed Article URL:http://dx.doi.org/10.1073/jem.20151869

17-0251 was used in Flow cytometry/Cell sorting to study whether nuclear factor kP provides an interface between persistent lung inflammation and carcinogenesis.

Not Applicable / Not Cited
Oncogene (Jun 2012; 31: 3164)
"Epithelial nuclear factor-B signaling promotes lung carcinogenesis via recruitment of regulatory T lymphocytes."
PubMed Article URL:http://dx.doi.org/10.1038/onc.2011.480

17-0251 was used in Flow cytometry/Cell sorting to investigate how the induction of a specific Treg cell response to Apolipoprotein B100-derived peptides reduces the development and progression of atherosclerosis in mice.

Mouse / Not Cited
Arteriosclerosis, thrombosis, and vascular biology (Mar 2012; 32: 605)
"Regulatory T-cell response to apolipoprotein B100-derived peptides reduces the development and progression of atherosclerosis in mice."
PubMed Article URL:http://dx.doi.org/10.1038/atvbaha.111.242800

17-0251 was used in Flow cytometry/Cell sorting to show that bone morphogenetic protein-4 causes immunosuppression by augmenting PD-L1 expression in the mesenchymal subset of lung cancer cells.

Mouse / Not Cited
Neural regeneration research (Feb 2021; 16: 382)
"Dynamic changes in the systemic immune responses of spinal cord injury model mice."
PubMed Article URL:http://dx.doi.org/10.4103/1673-5374.290910
17-0251-82 was used in Flow Cytometry to identify disease-relevant regulators of T cell fate by examining mutations that modify risk for multiple sclerosis.

Mouse / Not Cited

ZEB1 promotes pathogenic Th1 and Th17 cell differentiation in multiple sclerosis.

PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2021.109602

Journal of Clinical & Cellular Immunology (Jun 2016; 7:)

"<i>-Mycobacterium tuberculosis</i>-Induces Expansion of Foxp3 Positive CD4 T-cells with a Regulatory Profile in Tuberculin Non-sensitized Healthy Subjects: Implications for Effective Immunization against TB."

Author(s): Hirsch CS, Rojas R, Wu M, Toossi Z
PubMed Article URL: http://dx.doi.org/10.4172/2155-9899.1000428

17-0251 was used in Flow Cytometry/Cell sorting to investigate the basis of iT-reg expansion in response to MTB stimulation, in the absence of prior T cell antigen responsiveness.

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to report that Twisted gastrulation (TWSG1), is expressed in activated B cells and regulates T-independent B cell responses.

Journal of Immunology (Baltimore, Md. : 1950) (Jun 2011; 186: 6860)

"Involvement of twisted gastrulation in T cell-independent plasma cell production."

Author(s): Tsaiavos S, Segkia K, Passa O, Petryk A, O'Connor MB, Graf D
PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1001833

17-0251 was used in Flow cytometry/Cell sorting to study the therapeutic effect of rapamycin was compared with methylprednisolone (MP) on EAM.

Human / Not Cited

Experimental and therapeutic medicine (Jul 2020; 20: 219)

"Comparison of rapamycin and methylprednisolone for treating inflammatory muscle disease in a murine model of experimental autoimmune myositis."

Author(s): Kang J, Feng D, Yang F, Tian X, Han W, Jia H
PubMed Article URL: http://dx.doi.org/10.3892/etm.2020.8716

17-0251 was used in Flow cytometry/Cell sorting to show geldanamycin plays an important role in attenuating virus infection-induced acute lung injury/acute respiratory distress syndrome by reducing the host's inflammatory responses.

Mouse / Not Cited

Frontiers in Cellular and Infection Microbiology (Feb 2018; 7:)

"Geldanamycin Reduces Acute Respiratory Distress Syndrome and Promotes the Survival of Mice Infected with the Highly Virulent H5N1 Influenza Virus."

PubMed Article URL: http://dx.doi.org/10.3389/fcimb.2017.00267

17-0251 was used in Flow cytometry/Cell sorting to analyse the role in Tregs of the evolutionarily conserved CoREST complex, consisting of a scaffolding protein, Rcor1 or Rcor2, plus Hdac1 or Hdac2 and Lsd1 enzymes.

Mouse / Not Cited

The Journal of Clinical Investigation (Apr 2020; 130: 1830)

"Inhibiting the coregulator CoREST impairs Foxp3+ Treg function and promotes antitumor immunity."

Author(s): Xiong Y, Wang L, Di Giorgio E, Akimova T, Beier UH, Han R, Trevisanut M, Kalin JH, Cole PA, Hancock WW
PubMed Article URL: http://dx.doi.org/10.1172/JCI131375

17-0251-82 was used in Flow Cytometry to identify the role of Blimp-1 as a crucial regulator of the Foxp3+RORt+ regulatory T cell subset.

Mouse / Not Cited

Cell Reports (Oct 2018; 25: 19)

"Blimp-1 Functions as a Molecular Switch to Prevent Inflammatory Activity in Foxp3<sup>+</sup>RORt<sup>+</sup> Regulatory T Cells."

PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2018.09.016

17-0251 was used in Flow cytometry/Cell sorting to report that Blimp-1, is expressed in activated B cells.

Mouse / Not Cited

PloS one (May 2015; 9:)

"Intestinal barrier dysfunction develops at the onset of experimental autoimmune encephalomyelitis, and can be induced by adoptive transfer of auto-reactive T cells."

Author(s): Noumi M, Bredberg A, Westrom B, Lavasaani S
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0106335
17-0251 was used in Flow cytometry/Cell sorting to assess the therapeutic efficacy of a combination anti-rErbb2 vaccine treatment for blocking tumour progression. **

**Mouse / Not Cited**

Journal of immunology (Baltimore, Md. : 1950) (Jun 2010; 184: 6124)

"Erbb2 DNA vaccine combined with regulatory T cell deletion enhances antibody response and reveals latent low-avidity T cells: potential and limits of its therapeutic efficacy."


PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0901215

17-0251 was used in Flow cytometry/Cell sorting to show that blocking the intrinsic apoptosis pathway with a Bcl-2/Bcl-xL inhibitor (ABT-737) caused a selective depletions of effector T cells and a relative enrichment of Tregs in vivo. **

**Mouse / Not Cited**

Frontiers in immunology (Mar 2016; 7: )

"Distinctive Expression of Bcl-2 Factors in Regulatory T Cells Determines a Pharmacological Target to Induce Immunological Tolerance."*

Author(s):Gabriel SS,Bon N,Chen J,Wekerle T,Bushell A,Fehr T,Cippà PE

PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2016.00073

17-0251 was used in Flow cytometry/Cell sorting to investigate the role of Dec2 in Th cell differentiation, showing that it is progressively induced at the late stage of Th2 differentiation, and that upregulation of Dec2 can promote Th2 differentiation under Th2-inducing conditions, which is due to CD25 expression elicited by Dec2. **

**Mouse / Not Cited**


"Dec2 promotes Th2 cell differentiation by enhancing IL-2R signaling."


PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0900975

17-0251-82 was used in flow cytometry to show that Treg cells are functional in settings of established broad-spectrum systemic inflammation and are capable of affording sustained reset of immune homeostasis. **

**Mouse / Not Cited**

Nature immunology (Sep 2021; 22: 1163)

"Regulatory T cells function in established systemic inflammation and reverse fatal autoimmunity."*


PubMed Article URL:http://dx.doi.org/10.1038/s41590-021-01001-4

17-0251 was used in Flow cytometry/Cell sorting to determine the effects of 11-Hydroxysteroid dehydrogenase type-1 deficiency on atherosclerosis and its inflammation. **

**Mouse / Not Cited**

FASEB journal : official publication of the Federation of American Societies for Experimental Biology (Apr 2013; 27: 1519)

"11-hydroxysteroid dehydrogenase type 1 deficiency in bone marrow-derived cells reduces atherosclerosis."*


PubMed Article URL:http://dx.doi.org/10.1096/fj.12-219105

17-0251 was used in Flow cytometry/Cell sorting to develop a chemo-immunotherapy approach to reduce the high mortality of metastatic breast cancer, utilising a liposomal carrier to trigger immunogenic cell death. **

**Mouse / 1:100**

ACS nano (Nov 2018; 12: 11041)

"Breast Cancer Chemotherapy Through Liposomal Delivery of an Immuneen Cell Death Stimulus Plus Interference in the IDO-1 Pathway."


PubMed Article URL:http://dx.doi.org/10.1021/acsnano.8b05189

17-0251 was used in Flow cytometry/Cell sorting to indicate that blocking Th17 conversion does not affect the GVHD suppressive ability of highly purified natural regulatory T-cells. **

**Mouse / Not Cited**

Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation (Nov 2013; 19: 1557)

"IL-17 gene ablation does not impact T-reg-mediated suppression of graft-versus-host disease after bone marrow transplantation."

Author(s):Colonna L,Florek M,Leveson-Gower DB,Sega EI,Baker J,Smith AT,Negrin RS

PubMed Article URL:http://dx.doi.org/10.1016/j.bbmt.2013.07.024

17-0251 was used in Flow cytometry/Cell sorting to demonstrate the protective effects of Y27 against autoimmune nephritis. **

**Mouse / Not Cited**

Arthritis research & therapy (Nov 2012; 14: )

"Y27, a novel derivative of 4-hydroxyquinoline-3-formamide, prevents the development of murine systemic lupus erythematosus-like diseases in MRL/lpr autoimmune mice and BDF1 hybrid mice."

Author(s):Xiao ZY,Chen SH,Cheng JP,Zhou WX,Zhang YX,Yang RF,Yun LH

PubMed Article URL:http://dx.doi.org/10.1186/ar4078
17-0251-82 was used in Flow Cytometry to report that as with Mel2d, the deletion of Mel2c in Tregs switches off the expression of Il10 and Icos and leads to enhanced antitumor immunity in syngeneic models of lung cancer.

**Mouse / Not Cited**

Frontiers in immunology (Dec 2021; 12: )

"A Biological Circuit Involving Mel2c, Mel2d, and Hdac9 Controls the Immunosuppressive Functions of CD4+Foxp3+ T-Regulatory Cells."


PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2021.703632

17-0251-82 was used in Flow Cytometry to demonstrate the potency of hypoallergen-encoding DNA vaccines as a therapeutic strategy for human shellfish allergy via the vigorous induction of functional Treg cells.

**Mouse / Not Cited**

International journal of molecular sciences (Sep 2019; 20: )

"Modulating Shrimp Tropomyosin-Mediated Allergy: Hypoallergen DNA Vaccines Induce Regulatory T Cells to Reduce Hypersensitivity in Mouse Model."

Author(s): Wai CYY, Leung NYH, Leung PSC, Chu KH

PubMed Article URL: http://dx.doi.org/10.3390/jiims20184656

17-0251 was used in Flow Cytometry/Cell sorting to investigate the role of the JAK/STAT pathway in controlling Foxp3 in the short term, showing dynamic regulation of Foxp3 expression.

**Mouse / Not Cited**

PloS one (Aug 2016; 11: )

"Inhibition of the JAK/STAT Signaling Pathway in Regulatory T Cells Reveals a Very Dynamic Regulation of Foxp3 Expression."

Author(s): Goldstein JD, Burlion A, Zaragoza B, Sendeyo K, Polansky JK, Huehn J, Piaggio E, Salomon BL, Marodon G

PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0153882

17-0251 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**

Scientific reports (Jun 2020; 10: )

"Donor bone-marrow CXCR4+ Foxp3+ T-regulatory cells are essential for costimulation blockade-induced long-term survival of murine limb transplants."


PubMed Article URL: http://dx.doi.org/10.1038/s41598-020-66139-x

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**Mouse / Not Cited**

Cell (Sep 2011; 146: 980)

"Endothelial cells are central orchestrators of cytokine amplification during influenza virus infection."

Author(s): Teijaro JR, Walsh KB, Cahalan S, Fremgen DM, Roberts E, Scott F, Martinborough E, Peach R, Oldstone MB, Rosen H

PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2011.08.015

17-0251 was used in Flow cytometry/Cell sorting to demonstrate that IL-2-deprivation conditions create a unique environment for efficient TGF-β-mediated suppression by Tregs.

**Mouse / Not Cited**

Immunology letters (Aug 2010; 132: 61)

"IL-2-deprivation and TGF-beta are two non-redundant suppressor mechanisms of CD4+CD25+ regulatory T cell which jointly restrain CD4+CD25+ cell activation."


PubMed Article URL: http://dx.doi.org/10.1016/j.imlet.2010.06.001

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**Mouse / Not Cited**

Cancer immunology research (Jul 2020; 8: 895)

"Characterization of BAY 1905254, an Immune Checkpoint Inhibitor Targeting the Immunoglobulin-Like Domain Containing Receptor 2 (ILDR2)."


PubMed Article URL: http://dx.doi.org/10.1158/2326-6066.CIR-19-0321

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**Mouse / Not Cited**

Nature communications (Sep 2019; 10: )

"ImmGen report: sexual dimorphism in the immune system transcriptome."


PubMed Article URL: http://dx.doi.org/10.1038/s41467-019-12348-6


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Journal of immunology (Baltimore, Md. : 1950) (Feb 2010; 184: 2124)
"Immunoregulatory properties of mouse limbal stem cells."
Author(s): Holan V, Pokorna K, Prochazkova J, Krulova M, Zajcova A
PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0903049

17-0251 was used in Flow cytometry/Cell sorting to demonstrate safe inclusion of IL-1 as an adjuvant in vaccination strategies, leading to full protection of mice against a high influenza virus challenge dose by raising potent T cell responses.

Mouse: Not Cited

17-0251 was used in Flow cytometry/Cell sorting to investigate CCR7 and Rag2GFP levels during Treg development, showing that CCR7 controls thymus recirculation, but not production and emigration, of Foxp3(-) T cells.

Mouse: Not Cited

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Mouse: Not Cited

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Mouse: Not Cited

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Mouse: Not Cited

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Mouse: Not Cited

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Mouse: Not Cited

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Mouse / Not Cited

Cell (Oct 2019; 179: 846)
"Transcriptional Basis of Mouse and Human Dendritic Cell Heterogeneity."
PubMed Article URL:http://dx.doi.org/10.1016/j.cell.2019.09.035

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"Th17 cell accumulation is decreased during chronic experimental colitis by (n-3) PUFA in Fat-1 mice."
Author(s): Monk JM,Jia Q,Callaway E,Weeks B,Alaniz RC,McMurray DN,Chapkin RS
PubMed Article URL:http://dx.doi.org/10.3945/jn.111.147058

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"Loss of the Protein Tyrosine Phosphatase PTPN22 Reduces Mannan-Induced Autoimmune Arthritis in SKG Mice."
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Mouse / Not Cited

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PubMed Article URL:http://dx.doi.org/10.1128/JVI.02409-16

Mouse / Not Cited

Parasite (Paris, France) (May 2020; 26: )
"Regulation of host immune cells and cytokine production induced by Trichinella spiralis infection."
PubMed Article URL:http://dx.doi.org/10.1051/parasite/2019074

Mouse / Not Cited

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"Autoimmune T Cells and Chronic Fungal Infection Drive Esophageal Carcinogenesis."
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Mouse / Not Cited

PloS one (Apr 2010; 5: )
"Anti-CD154 mAb and rapamycin induce T regulatory cell mediated tolerance in rat-to-mouse islet xenograft survival."
Heusser C,Golshayan D,Seebach JD,Wekerle T,Bühler LH
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17-0251 was used in Flow cytometry/Cell sorting to investigate how SHIPi represents an approach that permits control of obesity and diet-induced metabolic syndrome without apparent toxicity.

**Mouse / Not Cited**

JCI insight (Jul 2016; 1: )

"A small-molecule inhibitor of SHIP1 reverses age- and diet-associated obesity and metabolic syndrome."

Author(s): Srivastava N, Iyer S, Sudan R, Youngs C, Engelman RW, Howard KT, Russo CM, Chisholm JD, Kerr WG

PubMed Article URL: http://dx.doi.org/10.1189/jci.insight.88544

17-0251 was used in Flow cytometry/Cell sorting to investigate whether MSCs can be used for bone repair, showing that interferon gamma and T cells inhibit osteogenesis induced by allogeneic MSCs.

**Mouse / Not Cited**

Journal of orthopaedic research: official publication of the Orthopaedic Research Society (Feb 2013; 31: 227)

"Interferon gamma and T cells inhibit osteogenesis induced by allogeneic mesenchymal stem cells."

Author(s): Dighe AS, Yang S, Madhu V, Balan G, Cui Q

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17-0251 was used in Flow cytometry/Cell sorting to elucidate the significance of 7-integrin expression on innate immune cells for the pathogenesis of inflammatory bowel disease.

**Mouse / Not Cited**

Mucosal immunology (Mar 2016; 9: 527)

"7-Integrin exacerbates experimental DSS-induced colitis in mice by directing inflammatory monocytes into the colon."

Author(s): Schippers A, Muschawek M, Claessen T, Tautrat S, Grieb L, Tenbrock K, Gaßler N, Wagner N

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**Mouse / Not Cited**

Journal of leukocyte biology (Aug 2007; 82: 335)

"TGF-beta1 modulates Foxp3 expression and regulatory activity in distinct CD4+ T cell subsets."

Author(s): Pyzik M, Piccirillo CA

PubMed Article URL: http://dx.doi.org/10.1189/jlb.10069/jlb.1006644

17-0251-82 was used in Flow Cytometry to conclude that the immunosuppressive role of tumor-cell-expressed CD80 should be considered in research into biomarkers for the prediction of cancer patients' sensitivity to immune checkpoint inhibitors and for the development of a tumor-cell-specific CD80 blockade.

**Mouse / Not Cited**

Cancers (Apr 2021; 13: )

"CD80 Expression on Tumor Cells Alters Tumor Microenvironment and Efficacy of Cancer Immunotherapy by CTLA-4 Blockade."

Author(s): Vackova J, Polakova I, Johari SD, Smahel M

PubMed Article URL: http://dx.doi.org/10.3390/cancers13081935

17-0251 was used in Flow cytometry/Cell sorting to investigate, using a mouse model of homeostatic proliferation, the immunosuppressive properties of multipotent adult progenitor cells, through their ability to control T cell proliferation.

**Mouse / Not Cited**

Frontiers in immunology (Jun 2019; 9: )

"Multipotent Adult Progenitor Cells Suppress T Cell Activation in vivo: Models of Homeostatic Proliferation in a Prostaglandin E2-Dependent Manner."

Author(s): Carty F, Corbett JM, Cunha JPMCM, Reading JL, Tree TIM, Ting AE, Stubblefield SR, English K

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17-0251 was used in Flow cytometry/Cell sorting to show that cells latently-infected by HIV exhibit both "kick" and "kill" strategies upon virus reactivation with a bryostatin 1 analogue.

**Mouse / Not Cited**

PLoS pathogens (Sep 2017; 13: )

"In vivo activation of latent HIV with a synthetic bryostatin analog effects both latent cell "kick" and "kill" in strategy for virus eradication."


PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1006575

17-0251-82 was used in Flow Cytometry to find that sex-specific differences in Treg cells from visceral adipose tissue are determined by the sex niche in a sex-hormone-dependent manner to limit adipose tissue inflammation.

**Mouse / Not Cited**

Nature (Mar 2020; 579: 581)

"Sex-specific adipose tissue imprinting of regulatory T cells."

Author(s): Vackova J, Polakova I, Johari SD, Smahel M

PubMed Article URL: http://dx.doi.org/10.1038/s41586-020-2040-3


Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package insert ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.
Mouse / Not Cited

17-0251 was used in Flow Cytometry to test the role for transforming growth factor-1 expression in regulatory B cell function in autoimmune neuroinflammation.

Scientific reports (Oct 2016; 6:)

"B cell-derived transforming growth factor-1 expression limits the induction phase of autoimmune neuroinflammation."

Author(s): Bjarnadottir K, Benkhouca M, Merkler D, Weber MS, Payne NL, Bernard CCA, Molnarfi N, Lalive PH

PubMed Article URL: http://dx.doi.org/10.1038/srep34594

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to investigate the factors that influence the development of Th17 cells, showing that lineage gene expression is set by Ikaros.

The Journal of biological chemistry (Dec 2013; 288: 35170)

"Ikaros sets the potential for Th17 lineage gene expression through effects on chromatin state in early T cell development."

Author(s): Wong LY, Hatfield JK, Brown MA

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M113.481440

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to assess the therapeutic efficacy of intravaginal immunisation with human papillomavirus pcDNA3-CRT/E7 followed by electroporation.

Gene therapy (Jul 2017; 24: 408)

"Coinjection of IL2 DNA enhances E7-specific antitumor immunity elicited by intravaginal therapeutic HPV DNA vaccination with electroporation."

Author(s): Sun Y, Peng S, Yang A, Farmer E, Wu TC, Hung CF

PubMed Article URL: http://dx.doi.org/10.1038/s41467-017-01651-9

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to investigate how significant tumour reduction or eradication is accomplishable by recruiting cytotoxic T lymphocytes, concomitant with down-regulation of Foxp3+ T cells.

Nature communications (Nov 2017; 8:)

"Nano-enabled pancreas cancer immunotherapy using immunogenic cell death and reversing immunosuppression."


PubMed Article URL: http://dx.doi.org/10.1038/s41467-017-01651-9

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to show that mice that overexpress IL-27 had decreased Treg frequencies and developed spontaneous inflammation.


"A role for IL-27 in limiting T regulatory cell populations."

Author(s): Wojno ED, Hasken N, Stumhofer JS, O’Hara AC, Mauldin E, Fang Q, Turka LA, Levin SD, Hunter CA

PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1004182

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to define the mechanisms contributing to CNS immune privilege.

Scientific reports (Mar 2014; 4:)

"Immune privilege of the CNS is not the consequence of limited antigen sampling."


PubMed Article URL: http://dx.doi.org/10.1038/srep04422

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to identify a new method to generate in vitro iTreg cells (TregPMA cells) with demonstrated functionality in vivo.

BMC gastroenterology (Dec 2012; 12:)

"Murine CD4CD25 cells activated in vitro with PMA/ionomycin and anti-CD3 acquire regulatory function and ameliorate experimental colitis in vivo."

Author(s): Majowicz A, van der Marel S, te Velde AA, Meijer SL, Petry H, van Deventer SJ, Ferreira V

PubMed Article URL: http://dx.doi.org/10.1186/1471-230X-12-172

Mouse / Not Cited

17-0251-82 was used in Flow Cytometry to demonstrate that interferon regulatory factor 4 was a key transcriptional determinant controlling T cell responses during transplantation.

Immunity (Dec 2017; 47: 1114)

"Ablation of Transcription Factor IRF4 Promotes Transplant Acceptance by Driving Allogenic CD4<sup>+</sup> T Cell Dysfunction."


PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2017.11.003
17-0251 was used in Flow cytometry/Cell sorting to study the suppression of autoimmune arthritis and regulation of STAT3 activation via HtrA2.

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Scientific reports (Dec 2016; 6: )

"HtrA2 suppresses autoimmune arthritis and regulates activation of STAT3."

Author(s): Lee SH, Moon YM, Seo H, Kim SY, Kim EK, Yi J, Nam MK, Min JK, Park SH, Rhim H, Cho ML

PubMed Article URL: http://dx.doi.org/10.1038/srep39393

17-0251 was used in Flow cytometry/Cell sorting to investigate the mechanisms by which adipose tissue stem cells (ASCs) reduce allergic symptoms and eosinophilic inflammation following injection, showing that culture supernatant of ASCs also reduced allergic airway inflammation.

**Mouse / Not Cited**

Stem cell research & therapy (Jan 2017; 8: )

"Culture supernatant of adipose stem cells can ameliorate allergic airway inflammation via recruitment of CD4+<sup>+</sup>/CD25+<sup>+</sup>Foxp3 T cells."

Author(s): Yu HS, Park MK, Kang SA, Cho KS, Mun SJ, Roh HJ


17-0251 was used in Flow cytometry/Cell sorting to investigate oxa-lipatin-induced haematological anomalies and splenomegaly in mice.

**Mouse / Not Cited**

PloS one (Oct 2020; 15: )

"Oxaliplatin-induced haematological toxicity and splenomegaly in mice."

Author(s): Lees JG, White D, Keating BA, Barki-Luke ME, Makker PGS, Goldstein D, Moalem-Taylor G

PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0238164

17-0251-82 was used in Flow cytometry/Cell sorting to observe that anti-CD19 CAR-T cells ameliorated experimental autoimmune encephalomyelitis and thoroughly deplete B cells in peripheral tissues and in the CNS.

**Mouse / Not Cited**

Neurology(R) neuroimmunology & neuroinflammation (Mar 2023; 10: )

"CAR-T Cell-Mediated B-Cell Depletion in Central Nervous System Autoimmunity."


PubMed Article URL: http://dx.doi.org/10.1212/NNXI.0000000000200080

17-0251-82 was used in Flow cytometry to demonstrate that lentilicin antagonizes SA-induced hepatotoxicity in mice, may be involved in the downregulations of pro-inflammatory OX40 or IL-17A and the activation of anti-oxidative Nrf2, NQO1 signals.

**Mouse / Not Cited**

BMC pharmacology & toxicology (Mar 2022; 23: )

"Lentinan alleviates arsenic-induced hepatotoxicity in mice via downregulation of OX40/IL-17A and activation of Nrf2 signaling."

Author(s): Yang Y, Song S, Nie Y, Chen R, Chen P

PubMed Article URL: http://dx.doi.org/10.1186/s40360-022-00557-7

17-0251 was used in Flow cytometry/Cell sorting to investigate the use of BRAF and MEK inhibitors with immunotherapy in patients with BRAF(V600E) melanoma.

**Mouse / Not Cited**

Science translational medicine (Mar 2015; 7: )

"Improved antitumor activity of immunotherapy with BRAF and MEK inhibitors in BRAF(V600E) melanoma."

Author(s): Hu-Lieskovan S, Mok S, Homet Moreno B, Tsoi J, Robert L, Goedert L, Pinheiro EM, Koya RC, Graeber TG, Comin-Anduix B, Ribas A

PubMed Article URL: http://dx.doi.org/10.1126/scitranslmed.aaa4691

17-0251 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.

**Mouse / Not Cited**

Investigative ophthalmology & visual science (Jan 2019; 60: 430)

"Bilateral Effect of the Unilateral Corneal Nerve Cut on Both Ocular Surface and Lacrimal Gland."

Author(s): Lee HK, Kim KW, Ryu JS, Jeong HJ, Lee SM, Kim MK

PubMed Article URL: http://dx.doi.org/10.1177/iovs.18-26051

17-0251 was used in Flow cytometry/Cell sorting to study the suppression of autoimmune arthritis and regulation of STAT3 activation via HtrA2.

**Mouse / Not Cited**

Cancer immunology, immunotherapy : CII (Dec 2012; 61: 2239)

"Cellular and cytokine-dependent immunosuppressive mechanisms of grm1-transgenic murine melanoma."

Author(s): Alb M, Sie C, Adam C, Chen S, Becker JC, Schrama D

PubMed Article URL: http://dx.doi.org/10.1007/s00262-012-1290-9
17-0251 was used in Flow cytometry/Cell sorting to study the proatherogenic properties of PLA2G10, a type of several secreted phospholipase A2.

**Mouse / Not Cited**

Arteriosclerosis, thrombosis, and vascular biology (Mar 2013; 33: 466)

"Group X secreted phospholipase A2 limits the development of atherosclerosis in LDL receptor-null mice."


PubMed Article URL: http://dx.doi.org/10.1161/ATVBAHA.112.300309

17-0251 was used in Flow cytometry/Cell sorting to study the role played by MEF2D in sustaining effector Foxp3+ Treg functions without abrogating their basal actions suggests its suitability for drug discovery efforts in cancer therapy.

**Mouse / Not Cited**

The Journal of clinical investigation (Dec 2020; 130: 6242)

"MEF2D sustains activation of effector Foxp3+ Tregs during transplant survival and anticancer immunity."


PubMed Article URL: http://dx.doi.org/10.1172/JCI135486

17-0251 was used in Flow cytometry/Cell sorting to identify Spls as triggering allergens released by S aureus, opening prospects for diagnosis and causal therapy of asthma.

**Mouse / Not Cited**

The Journal of allergy and clinical immunology (Feb 2017; 139: 492)

"Staphylococcal serine protease-like proteins are pacemakers of allergic airway reactions to Staphylococcus aureus."


PubMed Article URL: http://dx.doi.org/10.1016/j.jaci.2016.03.045

17-0251 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: deoxyxaytidine kinase and thymidine kinase.

**Mouse / Not Cited**

The Journal of experimental medicine (Nov 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

17-0251 was used in Flow cytometry/Cell sorting to challenge the current paradigm that B cell activation plays an overall protective role in atherogenesis, and identify new antiallergogenic strategies based on B cell modulation.

**Mouse / Not Cited**


"B cell depletion reduces the development of atherosclerosis in mice."


PubMed Article URL: http://dx.doi.org/10.1084/jem.201000155

17-0251 was used in Flow cytometry/Cell sorting to evaluate how STZ-induced diabetes affects adaptive immunity and the consequences thereof on allograft rejection.

**Mouse / Not Cited**

Diabetes (Sep 2011; 60: 2331)

"Immunosuppressive effects of streptozotocin-induced diabetes result in absolute lymphopenia and a relative increase of T regulatory cells."


PubMed Article URL: http://dx.doi.org/10.2337/db11-0159

17-0251 was used in Flow cytometry/Cell sorting to investigate the role of regulatory T cells in delayed-type hypersensitivity arthritis through depletion, and the rescuing effect of IL-7 in connection to regulatory T cell depletion.

**Mouse / Not Cited**

Disease models & mechanisms (Apr 2016; 9: 427)

"Depletion of regulatory T cells leads to an exacerbation of delayed-type hypersensitivity arthritis in C57BL/6 mice that can be counteracted by IL-17 blockade."


PubMed Article URL: http://dx.doi.org/10.1242/dmm.022905
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Journal of autoimmunity (Nov 2021; 124: )
"Liver X receptor beta deficiency attenuates autoimmune-associated neuroinflammation in a T cell-dependent manner."
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17-0251-82 was used in Flow Cytometry to develop enhanced adoptive T cell therapy using immunomodulatory fusion proteins for use in solid tumours.

The Journal of experimental medicine (Dec 2020; 217: )
"A Fas-4-1BB fusion protein converts a death to a pro-survival signal and enhances T cell therapy."
Author(s):Oda SK, Anderson KG, Ravikumar P, Bonson P, Garcia NM, Jenkins CM, Zhuang S, Daman AW, Chiu EY, Bates BM, Greenberg PD
PubMed Article URL:http://dx.doi.org/10.1084/jem.20191166

17-0251 was used in Flow cytometry/Cell sorting to study how inflammation and other innate immune signals may activate antigen presenting cells to up-regulate GITR.

Immunity (Nov 2017; 47: 928)
"Interleukin-33-Activated Islet-Resident Innate Lymphoid Cells Promote Insulin Secretion through Myeloid Cell Retinoic Acid Production."
PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2017.10.015

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Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to study how group 2 innate lymphoid cells regulate adaptive Th2 cell functions.

The Journal of experimental medicine (Sep 2017; 214: 2507)
"ILC2s regulate adaptive Th2 cell functions via PD-L1 checkpoint control."
Author(s):Schwartz C, Khan AR, Floudas A, Saunders SP, Hams E, Rodewald HR, McKenzie ANJ, Fallon PG
PubMed Article URL:http://dx.doi.org/10.1084/jem.20170051

17-0251 was used in Flow cytometry/Cell sorting to demonstrate that increased expression of Prdm14 drives development of T-Cell acute lymphoblastic leukemia in mice.

Disease models & mechanisms (Nov 2013; 6: 1494)
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Author(s):Carofino BL, Ayanga B, Justice MJ
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Mouse / Not Cited

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"In vivo ablation of CD11c-positive dendritic cells increases susceptibility to herpes simplex virus type 1 infection and diminishes NK and T-cell responses."
Author(s):Kassim SH,Rajasagi NK,Zhao X,Chervenak R,Jennings SR

Human / Not Cited

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Mouse / Not Cited

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Author(s):Zhou J,Lu Y,Wu W,Feng Y
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PubMed Article URL:http://dx.doi.org/10.1093/infdis/jis236

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Mouse / Not Cited

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Human / Not Cited

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"Host natural killer T cells induce an interleukin-4-dependent expansion of donor CD4<sup>+</sup>CD25<sup>+</sup>Foxp3<sup>+</sup> T regulatory cells that protects against graft-versus-host disease."
Author(s):Pillai AB,George TI,Dutt S,Strober S
PubMed Article URL:http://dx.doi.org/10.1182/blood-2008-06-165506

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to demonstrate that the methylation state of the CpG motifs within the TSDR is limited to repair, replacement of or refund for the non-conforming products at sellers sole option. There is no obligation to repair, replace or refund for products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by buyer, (iii) use of the products in a manner for which they were not designed, or (iv) improper handling or storage. If products are returned, they are returned in their original package, including all accessories, components, or inserts. If products are used in diagnostic tests, in vivo or in vivo function tests, or in any manner not consistent with their intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

Mouse / Not Cited

Cancer research (Apr 2009; 69: 3205)
"Naringenin: a potential immunomodulator for inhibiting lung fibrosis and metastasis."
Author(s):Du G,Jin L,Han X,Song Z,Zhang H,Liang W
PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-08-3939

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to determine whether mouse models of idiopathic pulmonary fibrosis have high incidence of lung cancer, showing that Naringenin could treat lung fibrosis and metastasis.

Mouse / Not Cited

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Mouse / Not Cited

Cancerimmunology, immunotherapy : CII (Apr 2012; 61: 511)
"The small molecule TGF- signaling inhibitor SM16 synergizes with agonistic OX40 antibody to suppress established mammary tumors and reduce spontaneous metastasis."
Author(s):Garrison K,Hahn T,Lee WC,Ling LE,Weinberg AD,Akporiaye ET
PubMed Article URL:http://dx.doi.org/10.1007/s00262-011-1119-y
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**Mouse / Not Cited**

Cancer research (Aug 2006; 66: 7734)  
"Immunosurveillance of Erbb2 carcinogenesis in transgenic mice is concealed by a dominant regulatory T-cell self-tolerance."  
Author(s): Ambrosino E, Spadaro M, Iezzi M, Curcio C, Forini G, Musiani P, Wei WZ, Cavallo F  
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**Mouse / Not Cited**

Science translational medicine (Nov 2016; 8: )  
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**Mouse / Not Cited**

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"Regulatory T cells modulate posttranslational neovascularization."  
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Nature communications (Apr 2018; 9: )  
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PubMed Article URL: http://dx.doi.org/10.1038/s41467-018-03915-4

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**Mouse / Not Cited**

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"Redundant cytokine requirement for intestinal microbiota-induced Th17 cell differentiation in draining lymph nodes."  
PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2021.109608

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PubMed Article URL: http://dx.doi.org/10.1038/s42003-020-0916-2

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**Mouse / Not Cited**

Diabetes (Oct 2009; 58: 2277)  
"Immune depletion with cellular mobilization imparts immunoregulation and reverses autoimmune diabetes in nonobese diabetic mice."  
PubMed Article URL: http://dx.doi.org/10.2337/db09-0557
17-0251 was used in Flow cytometry/Cell sorting to determine the immune cell subsets that contribute to the protection conferred by the live attenuated SPY1 vaccine.

Mouse / Not Cited


17-0251 was used in Flow cytometry/Cell sorting to identify the control of Treg activation and immune tolerance maintenance is due to Noc4L mediated ribosome biogenesis.

Mouse / Not Cited


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Mouse / Not Cited

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Mouse / Not Cited


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Mouse / Not Cited


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Mouse / Not Cited


17-0251 was used in Flow cytometry/Cell sorting to investigate the potential of PSK to augment antitumour immunity.

Mouse / Not Cited

17-0251 was used in Flow cytometry/Cell sorting to study the endocrine regulation of conventional and regulatory T cells during reproduction.

Mouse / Not Cited


17-0251 was used in Flow cytometry/Cell sorting to examine whether the aryl hydrocarbon receptor-mediated effect of TCDD suppresses mouse experimental autoimmune uveitis, showing that it induces differentiation of Tregs.

Mouse / Not Cited


17-0251 was used in Flow cytometry/Cell sorting to demonstrate that probiotics treat experimental colitis by increasing regulatory T-cell number and regulating Th1 and Th2 cytokine ratios.

Mouse / Not Cited


17-0251 was used in Flow cytometry/Cell sorting to show that the activity of nuclear factors of activated T cells-c1 supports the acute rejection of heterotopic heart allografts.

Mouse / Not Cited


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Mouse / Not Cited


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Mouse / Not Cited


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Mouse / Not Cited

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Mouse / Not Cited

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Mouse / Not Cited

Infection and immunity (Oct 2015; 83: 3865)
"Parasite Manipulation of the Invariant Chain and the Peptide Editor H2-DM Affects Major Histocompatibility Complex Class II Antigen Presentation during Toxoplasma gondii Infection."
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PubMed Article URL: http://dx.doi.org/10.1128/IAI.00415-15

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Mouse / Not Cited

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Author(s): van Santen HM, Benoist C, Mathis D
PubMed Article URL: http://dx.doi.org/10.1084/jem.20041022

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Mouse / Not Cited

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"Interleukin-4 Supports the Suppressive Immune Responses Elicted by Regulatory T Cells."
Author(s): Yang WC, Hwang YS, Chen YY, Liu CL, Shen CN, Hong WH, Lo SM, Shen CR
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Mouse / Not Cited

Gene therapy (Sep 2010; 17: 1181)
"Effects of irradiating adult mdx mice before full-length dystrophin cDNA transfer on host anti-dystrophin immunity."
Author(s): Eghtesad S, Zheng H, Nakai H, Epperly MW, Clemens PR
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Mouse / Not Cited

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Mouse / 1:100

PloS one (Jun 2015; 9: )
"Autoimmune diabetes is suppressed by treatment with recombinant human tissue Kallikrein-1."
Author(s): Maneva-Radicheva L, Amatyca C, Parker C, Ellifson J, Radichev I, Raghavan A, Charles ML, Williams MS, Robbins MS, Savinov AY
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Mouse / Not Cited

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Mouse / Not Cited

European journal of immunology (Feb 2007; 37: 425)
"Immunoregulatory role of JaLpha281 T cells in aged mice developing lupus-like nephritis."
Author(s): Sireci G, Russo D, Dieli F, Porcelli SA, Taniguchi M, La Manna MP, Di Liberto D, Scarpa F, Salerno A
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Author(s): Ohmichi Y, Hirakawa J, Imai Y, Fukuda M, Kawashima H
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Mouse / Not Cited
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"In vivo expansion of Treg cells with IL-2-mAb complexes: induction of resistance to EAE and long-term acceptance of islet allografts without immunosuppression."
Author(s): Webster KE, Walters S, Kohler RE, Mkrvan T, Boyman O, Surh CD, Grey ST, Sprent J
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Mouse / Not Cited
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"T Lymphocyte-Specific Activation of Nrf2 Protects from AKI."
Author(s): Noel S, Martina MN, Bandapalle S, Racusen LC, Potteli HR, Hamad AR, Reddy SP, Rabb H
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"PSG9 Stimulates Increase in FoxP3+ Regulatory T-Cells through the TGF-1 Pathway."
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Mouse / Not Cited
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Mouse / Not Cited

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Mouse / Not Cited

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The Journal of clinical investigation (Mar 2015; 125: 1111)
"FOX3+ regulatory T cell development and function require histone/protein deacetylase 3."
Author(s): Wang L, Liu Y, Han R, Beier UH, Bhatti TR, Akimova T, Greene MI, Hiebert SW, Hancock WW
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Mouse / Not Cited

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Mouse / Not Cited

Bio-protocol (Nov 2016; 6: )
"Evaluation of Cross-presentation in Bone Marrow-derived Dendritic Cells (in vitro) and Splenic Dendritic Cells (in vivo) Using Antigen-coated Beads."
Author(s): Aiello A, Kotsias F, Hoffmann E, Ambrogio S
PubMed Article URL:http://dx.doi.org/10.21769/BioProtoc.2015

Mouse / Not Cited

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Mouse / Not Cited

Mucosal immunity (Mar 2013; 6: 267)
"Tregs are dysfunctional in vivo in a spontaneous murine model of Crohn’s disease."
Author(s): Ishikawa D, Okazawa A, Corridoni D, Jia LG, Wang XM, Guanzon M, Xin W, Arseneau KO, Pizarro TT, Cominelli F
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Mouse / Not Cited

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Mouse / Not Cited

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