CD80 (B7-1) Monoclonal Antibody (16-10A1), APC, eBioscience™

**Catalog Number** 17-0801-81

<table>
<thead>
<tr>
<th>Details</th>
<th>Species Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>50 µg</td>
</tr>
<tr>
<td>Host/Isotope</td>
<td>Armenian hamster / IgG</td>
</tr>
<tr>
<td>Class</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Type</td>
<td>Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>16-10A1</td>
</tr>
<tr>
<td>Conjugate</td>
<td>APC</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.2 mg/mL</td>
</tr>
<tr>
<td>Purification</td>
<td>Affinity chromatography</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>PBS, pH 7.2</td>
</tr>
<tr>
<td>Contains</td>
<td>0.09% sodium azide</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>4°C, store in dark, DO NOT FREEZE!</td>
</tr>
</tbody>
</table>

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

**Tested Applications**
- Dilution *: Flow Cytometry (Flow) 0.06 µg/test

**Published Applications**
- Flow Cytometry (Flow): See 46 publications below

**Description:** The 16-10A1 monoclonal antibody reacts with mouse CD80 (B7-1), a 55 kDa member of the Ig superfamily. CD80 is expressed by macrophages, dendritic cells and activated B cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively. Applications Reported: The 16-10A1 antibody has been reported for use in flow cytometric analysis. Applications Tested: The 16-10A1 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.06 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**
CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28, and of an inhibitory receptor CTLA-4 (CD152). Both B7 molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, and both molecules can also substitute for each other in this process. CD80 is rapidly induced on the surface of in vitro activated B cells, with Epstein Barr Virus (EBV) transformed B cell lines, with Burkitts lymphoma cell lines, with freshly isolated follicular B lymphoma cells, T cells, and monocytes. The B-lymphocyte activation antigen B7-1 provides regulatory signals for T lymphocytes as a consequence of binding to the CD28 and CTLA4 ligands of T cells. Diseases associated with CD80 dysfunction include gallbladder squamous cell carcinoma and myocarditis.

CD80 (B7-1) Antibody (17-0801-81) in Flow

Mouse splenocytes were unstimulated (left) or stimulated for 2 days with F(ab')2 Anti-Mouse IgM, κ chain specific Functional Grade Purified (Product # 16-5092-85) and Anti-Mouse CD40 Functional Grade Purified (Product # 16-0401-82) (right). Cells were then stained with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Armenian Hamster IgG Isotype Control APC (Product # 17-4888-82) (blue histogram) or 0.03 µg of Anti-Mouse CD80 (B7-1) APC (purple histogram). Cell in the CD45R (B220) positive gate were used for analysis.
### PubMed References For CD80 (B7-1) Monoclonal Antibody (16-10A1), APC, eBioscience™

#### 46 Flow Cytometry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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<tbody>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to suggest that the availability of mature DCs at the site of inoculation is a critical rate-limiting factor for DNA vaccine immunogenicity.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to assess changes in cell surface marker expression of dendritic cells and macrophages in response to c-di-AMP.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to demonstrate that meningeal lymphatics fulfill two critical criteria: they assist in the drainage of cerebrospinal fluid components and enable immune cells to enter draining lymph nodes in a CCR7-dependent manner.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to provide new insights into the development of siRNA-based therapeutics for the treatment of T1D.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to study the role of SOCS3 in suppressing IL-6 signalling during immune responses to T. gondii infection.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to demonstrate that mutation of the kindlin-3 binding site in the 2-integrin abolishes activation of the actin-regulated myocardin related transcription factor A/serum response factor signalling pathway in dendritic cells and MRTF-A/SRF-dependent gene expression.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>17-0801 was used in Flow cytometry/Cell sorting to investigate if 14-dehydroergosterol induces tolerogenic dendritic cells (DCs) to convert to a tolerogenic type.</td>
</tr>
<tr>
<td>**Scientific reports (Oct 2017; 7: )  &quot;Identification of 14-dehydroergosterol as a novel anti-inflammatory compound inducing tolerogenic dendritic cells.&quot;  Author(s): Ano Y, Ikado K, Shindo K, Koizumi H, Fujwara D  PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41598-017-14446-1">http://dx.doi.org/10.1038/s41598-017-14446-1</a></td>
<td></td>
</tr>
</tbody>
</table>
17-0801 was used in Flow cytometry/Cell sorting to explore the contribution of the Aryl hydrocarbon Receptor signalling pathway to the regulation of innate immunity.

**Mouse / Not Cited**

"Abolishing the aryl hydrocarbon receptor (AhR) in CD11c+ cells perturbs intestinal epithelium development and intestinal immunity."

Author(s): Chng SH, Kundu P, Dominguez-Brauer C, Teo WL, Kawajiri K, Fujii-Kuriyama Y, Mak TW, Pettersson S

PubMed Article URL: http://dx.doi.org/10.1038/srep23820

17-0801 was used in Flow cytometry/Cell sorting to investigate direct intercellular communication in a macrophage-like cell line, showing communication through contacts between continuous pseudopodial extensions.

**Mouse / Not Cited**

"Intercellular communication through contacts between continuous pseudopodial extensions in a macrophage-like cell line."

Author(s): Arreilla-Boni G, Hernández-Ruiz M, Castillo EC, Ortiz-Navarette V

PubMed Article URL: http://dx.doi.org/10.3109/15419061.2014.923993

17-0801 was used in Flow cytometry/Cell sorting to demonstrate a method for the HBV-induced augmentation of the CTL response.

**Mouse / Not Cited**

"Enhancement of CTLs induced by DCs loaded with ubiquitinated hepatitis B virus core antigen."

Author(s): Chen JH, Yu YS, Chen XH, Liu HH, Zhang QG, Tang ZH


17-0801-82 was used in Flow Cytometry to show that the phosphatase PP2C played a pivotal role in regulating dendritic cells (DC) activation and function, as PP2C ablation caused aberrant maturation, activation, and Th1/Th17-priming of DCs, and hence induced onset of exacerbated experimental autoimmune encephalomyelitis.

**Mouse / Not Cited**

"PP2C Controls the Differentiation and Function of Dendritic Cells Through Regulating the NSD2/mTORC2/ACLY Pathway."

Author(s): Lv N, Jin S, Zeng Y, Wu X, Kang Y, Su L, Dong Y, Wang B, Ma T, Shi L

PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2021.751409

17-0801 was used in Flow cytometry/Cell sorting to study the effect of ANXA2m on CD80 and CD86 expression, antigen cross-presentation, and the secretion of various cytokines.

**Mouse / Not Cited**

"Monomeric annexin A2 is an oxygen-regulated toll-like receptor 2 ligand and adjuvant."

Author(s): Andersen BM, Xia J, Epstein AL, Oliffe JT, Chen W, Blazar BR, Pennell CA, Olin MR

PubMed Article URL: http://dx.doi.org/10.1186/s40425-016-0112-6

17-0801 was used in Flow cytometry/Cell sorting to elucidate the involvement of IL-1 molecules in 3-MCA-induced carcinogenesis.

**Mouse / Not Cited**

"Host-derived interleukin-1 alpha is important in determining the immunogenicity of 3-methylcholantrene tumor cells."


PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0803916

17-0801 was used in Flow cytometry/Cell sorting to reveal a novel role for oxidised lipids in the regulation of cross-presentation.

**Mouse / Not Cited**

"Oxidized lipids block antigen cross-presentation by dendritic cells in cancer."


PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1302801

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**Frontiers in immunology** (Feb 2022; 12; )

"PP2C Controls the Differentiation and Function of Dendritic Cells Through Regulating the NSD2/mTORC2/ACLY Pathway."

Author(s): Lv N, Jin S, Zeng Y, Wu X, Kang Y, Su L, Dong Y, Wang B, Ma T, Shi L

PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2021.751409

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**Journal for immunotherapy of cancer** (Feb 2016; 4; )

"Monomeric annexin A2 is an oxygen-regulated toll-like receptor 2 ligand and adjuvant."

Author(s): Andersen BM, Xia J, Epstein AL, Oliffe JT, Chen W, Blazar BR, Pennell CA, Olin MR

PubMed Article URL: http://dx.doi.org/10.1186/s40425-016-0112-6

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PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0803916

17-0801 was used in Flow cytometry/Cell sorting to reveal a novel role for oxidised lipids in the regulation of cross-presentation.

**Journal of immunology** (Baltimore, Md. : 1950) (Mar 2014; 192: 2920)

"Oxidized lipids block antigen cross-presentation by dendritic cells in cancer."


PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1302801

17-0801 was used in Flow cytometry/Cell sorting to demonstrate a method for the HBV-induced augmentation of the CTL response.

**Scientific reports** (Apr 2016; 6; )

"Reprogramming MHC specificity by CRISPR-Cas9-assisted cassette exchange."

Author(s): Kelton W, Windok AC, Pesch T, Pogson M, Ford K, Parola C, Reddy ST

PubMed Article URL: http://dx.doi.org/10.1038/srep45775


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 inserts ("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, 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.
17-0801 was used in Flow cytometry/Cell sorting to reveal a function of B7-CD28 co-stimulation in shaping the T cell repertoire and limiting autoimmunity through both thymic clonal deletion and Treg cell generation.

Mouse / 1:100

Nature communications (Dec 2020; 11:)
"B7-CD28 co-stimulation modulates central tolerance via thymic clonal deletion and Treg generation through distinct mechanisms."

Author(s):Watanabe M,Lu Y,Breath M,Hodes RJ
PubMed Article URL:http://dx.doi.org/10.1038/s41467-020-20070-x

17-0801 was used in Flow cytometry/Cell sorting to develop magnetic nanoparticles for imaging dendritic cells.

Mouse / Not Cited

Magnetic resonance in medicine (May 2010; 63: 1383)
"Magnetic nanoparticles for imaging dendritic cells."

PubMed Article URL:http://dx.doi.org/10.1002/mrm.22313

17-0801 was used in Flow cytometry/Cell sorting to study how RBCs of LMP7-deficient mice were more likely to deform in response to infection with malaria parasites.

Mouse / Not Cited

PloS one (Sep 2013; 8:)
"Resistance to malaria by enhanced phagocytosis of erythrocytes in LMP7-deficient mice."

Author(s):Duan X,Imai T,Chou B,Tu L,Hirano K,Suzue K,Hirai M,Taniguchi T,Okada H,Shimokawa C,Hisaeda H
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0059633

17-0801 was used in Flow cytometry/Cell sorting to study the dynamics of Ag capture and presentation in situ, showing that dendritic cells continue to capture and present antigens after maturation.

Mouse / Not Cited

"Dendritic cells continue to capture and present antigens after maturation in vivo."

Author(s):Drutman SB,Trombetta ES
PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1000642

17-0801 was used in Flow cytometry/Cell sorting to investigate the role of lignin-rich enzyme lignin in dendritic cells.

Mouse / Not Cited

The Journal of biological chemistry (Feb 2015; 290: 4410)
"Lignin-rich enzyme lignin (LREL), a cellulose-treated lignin-carbohydrate derived from plants, activates myeloid dendritic cells via Toll-like receptor 4 (TLR4)."

Author(s):Tsuji R,Kolizumi H,Aoki D,Watanabe Y,Sugihara Y,Matsushita Y,Fukushima K,Fujiwara D
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M114.593673

17-0801 was used in Flow cytometry/Cell sorting to characterise the phenotype and therapeutic effects of transduced LentivIP-dendritic cells in models of EAE and CLP, showing that they differentiate into VIP-secreting tolerogenic-like DCs.

Mouse / Not Cited

Molecular therapy : the journal of the American Society of Gene Therapy (May 2010; 18: 1035)
"Dendritic cells transduced with lentiviral vectors expressing VIP differentiate into VIP-secreting tolerogenic-like DCs."

Author(s):Toscano MG,Delgado M,Kong W,Martin F,Skarica M,Ganea D
PubMed Article URL:http://dx.doi.org/10.1038/jbc.M114.593673

17-0801 was used in Flow cytometry/Cell sorting to investigate CD11b(+)Gr-1(+) cells found in epithelial ovarian cancer-bearing mice, which are induced by ovarian cancer cells and undergo antigen-specific immunity and cross-priming.

Mouse / Not Cited

Journal of immunology (Baltimore, Md. : 1950) (Jun 2010; 184: 6151)
"Antigen-specific immunity and cross-priming by epithelial ovarian carcinoma-induced CD11b(+)Gr-1(+) cells."

PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0903519

17-0801 was used in Flow cytometry/Cell sorting to study how RBCs of LMP7-deficient mice were more likely to deform in response to infection with malaria parasites.

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"B7-CD28 co-stimulation modulates central tolerance via thymic clonal deletion and Treg generation through distinct mechanisms."

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PubMed Article URL:http://dx.doi.org/10.1038/s41467-020-20070-x

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<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to investigate the effect of the administration of EPA on the regression of atherosclerosis.</td>
<td><a href="http://dx.doi.org/10.4049/jimmunol.1302241">http://dx.doi.org/10.4049/jimmunol.1302241</a></td>
</tr>
<tr>
<td>Arteriosclerosis, thrombosis, and vascular biology (Sep 2011; 31: 1963) &quot;Orally administered eicosapentaenoic acid induces rapid regression of atherosclerosis via modulating the phenotype of dendritic cells in LDL receptor-deficient mice.&quot;</td>
<td></td>
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<td>PubMed Article URL: <a href="http://dx.doi.org/10.1161/ATVBAHA.111.229443">http://dx.doi.org/10.1161/ATVBAHA.111.229443</a></td>
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<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to demonstrate that losartan suppresses conventional dendritic cell maturation and Th1 and Th17 polarization responses.</td>
<td></td>
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<tr>
<td>Author(s): Li, J, Zhang P S, Yu Q, Liu L, Yang Y, Guo FM, Qiu HB</td>
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<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to define the clearance of infected neutrophils by dendritic cells as central to the early immune evasion strategies of L. major.</td>
<td></td>
</tr>
<tr>
<td>Cell death &amp; disease (Dec 2015; 6:) &quot;Apoptotic cell clearance of Leishmania major-infected neutrophils by dendritic cells inhibits CD8 T-cell priming in vitro by Merytyrosine kinase-dependent signaling.&quot;</td>
<td><a href="http://dx.doi.org/10.1038/cddis.2015.351">http://dx.doi.org/10.1038/cddis.2015.351</a></td>
</tr>
<tr>
<td>Author(s): Ribiero-Gomes FL, Romano A, Lee S, Rotfle E, Peters NC, Debrabant A, Sacks D</td>
<td></td>
</tr>
<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to investigate how Orientia tsutsugamushi can exploit dendritic cells as replication reservoirs and impair functional maturation of these cells during infection in mammals.</td>
<td></td>
</tr>
<tr>
<td>PLoS neglected tropical diseases (Jun 2013; 7;) &quot;Orientia tsutsugamushi subverts dendritic cell functions by escaping from autoimmunity and impinging their migration.&quot;</td>
<td><a href="http://dx.doi.org/10.1371/journal.pntd.0001981">http://dx.doi.org/10.1371/journal.pntd.0001981</a></td>
</tr>
<tr>
<td>Author(s): Choi JH, Cheong TC, Ha NY, Ko Y, Cho CH, Jeon JH, So I, Kim IK, Choi MS, Kim IS, Cho NH</td>
<td></td>
</tr>
<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to develop a virus-based therapy that suppresses immunomodulation and targets ovarian peritoneal carcinomatosis.</td>
<td></td>
</tr>
<tr>
<td>Author(s): Gujar S, Dielschneider R, Clements D, Helsen E, Shmulevitz M, Marcato P, Pan D, Pan LZ, Ahn DG, Alawadhi A, Lee PW</td>
<td></td>
</tr>
<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to assess the effect of eosinophils on B cell survival, proliferation, and Ig secretion.</td>
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</tr>
<tr>
<td>Journal of immunology (Baltimore, Md. : 1950) (Apr 2014; 192: 3548) &quot;Eosinophils regulate peripheral B cell numbers in both mice and humans.&quot;</td>
<td><a href="http://dx.doi.org/10.1002/jimm.20675">http://dx.doi.org/10.1002/jimm.20675</a></td>
</tr>
<tr>
<td>Author(s): Wong TW, Doyle AD, Lee JJ, Jelnek DF</td>
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<tr>
<td>17-0801 was used in Flow cytometry/Cell sorting to suggest a novel model in which optimal T-cell costimulatory function of B7-1 requires high-avidity CD28 engagement by dimeric B7-1.</td>
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<tr>
<td>Author(s): Bhatia S, Sun K, Almo SC, Nathenson SG, Hodes RJ</td>
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<tr>
<td>17-0801-82 was used in Flow Cytometry to show ROP16II in type III strain Toxoplasma gondii can influence the subacute CNS immune response and mediate parasitic survival and persistence.</td>
<td></td>
</tr>
<tr>
<td>PLoS pathogens (Oct 2019; 15:) &quot;The ROP16II-dependent early immune response determines the subacute CNS immune response and type III Toxoplasma gondii survival.&quot;</td>
<td><a href="http://dx.doi.org/10.1371/journal.ppat.1007856">http://dx.doi.org/10.1371/journal.ppat.1007856</a></td>
</tr>
<tr>
<td>Author(s): Tuladhar S, Kocainowsky JA, Bhaskara A, Ghotmi Y, Chandrasekar S, Koshy AA</td>
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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 inserts (“Documentation”), for a 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 subject 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

17-0801 was used in Flow cytometry/Cell sorting to establish circulating MDSCs as a novel target for therapeutic intervention in ALS, at least at the early stage.

Mouse / Not Cited

PloS one (Mar 2012; 6) "Excess circulating alternatively activated myeloid (M2) cells accelerate autoimmune ALS progression while inhibiting experimental autoimmune encephalomyelitis."
Author(s): Yakin, I, Kunis, G, Miller, O, Butovsky, O, Bukhsan, S, Beers, DR, Henkel, JS, Yoles, E, Appel, SH, Schwartz M PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0026921

Mouse / Not Cited

Frontiers in physiology (Apr 2022; 9) "miR-21 Protects Against Ischemia/Reperfusion-Induced Acute Kidney Injury by Preventing Epithelial Cell Apoptosis and Inhibiting Dendritic Cell Maturation."

Mouse / Not Cited

17-0801 was used in Flow cytometry/Cell sorting to demonstrate that immune modulation by calcitriol may be a potentially valuable therapeutic approach against atherosclerosis.

Mouse / Not Cited

Arteriosclerosis, thrombosis, and vascular biology (Dec 2010; 30: 2495) "Oral administration of an active form of vitamin D3 (calcitriol) decreases atherosclerosis in mice by inducing regulatory T cells and immature dendritic cells with tolerogenic functions." Author(s): Takeda, M, Yamashita, T, Sasaki, N, Nakajima, K, Kita, T, Shinohara, M, Ishida, T, Hirata K PubMed Article URL: http://dx.doi.org/10.1161/ATVBAHA.110.215459

Mouse / Not Cited

17-0801 was used in Flow cytometry/Cell sorting to evaluate the impact of premature cell death of antigen-presenting cells by Caspase-1- and RipK3-signalling pathways on CD8+ T-cell priming during infection of mice with Salmonella typhimurium.

Mouse / Not Cited

Cell death and differentiation (Nov 2017; 24: 1900) "Culling of APCs by inflammatory cell death pathways restricts TIM3 and PD-1 expression and promotes the survival of primed CD8 T cells."

Mouse / Not Cited

The Journal of experimental medicine (Dec 2014; 211: 2519) "CCDC88B is a novel regulator of maturation and effector functions of T cells during pathological inflammation."
Author(s): Kennedy, JM, Fodil, N, Torre, S, Bongfen, SE, Olivier, JF, Leung, V, Langlais, D, Meunier, C, Berghout, J, Langat, P, Schwartzentruber, J, Majewski, J, Lathrop, M, Vidal, SM, Gros, P PubMed Article URL: http://dx.doi.org/10.1084/jem.20140455

Mouse / Not Cited

17-0801 was used in Flow cytometry/Cell sorting to suggest that CCDC88B is the morbid gene underlying the pleiotropic effect of the 11q13 locus on inflammation.

Mouse / Not Cited

Stem cells translational medicine (Apr 2015; 4: 369) "Systemically delivered adipose stromal vascular fraction cells disseminate to peripheral artery walls and reduce vasomotor tone through a CD11b+ cell-dependent mechanism."

Mouse / Not Cited

17-0801 was used in Flow cytometry/Cell sorting to investigate the potential of SVF cells to therapeutically modulate small artery vasoactivity.

Mouse / Not Cited

Annals of neurology (May 2015; 77: 902) "B-cell very late antigen-4 deficiency reduces leukocyte recruitment and susceptibility to central nervous system autoimmunity."
Mouse / Not Cited
17-0801-82 was used in Flow Cytometry to study the critical intracellular molecules that orchestrate neuroprotective functions of microglia.

Cell (Oct 2022; 185: 4135)
"SYK coordinates neuroprotective microglial responses in neurodegenerative disease."
PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2022.09.030

Mouse / 1:100
17-0801-82 was used in Flow Cytometry to explore the regulatory effects of pulmonary cDCs on acute lung inflammation and injury in lipopolysaccharide (LPS)-induced ARDS.

International journal of molecular medicine (Aug 2019; 44: 617)
"Classical dendritic cells regulate acute lung inflammation and injury in mice with lipopolysaccharide-induced acute respiratory distress syndrome."
Author(s): Li L, Dong L, Zhao D, Gao F, Yan J
PubMed Article URL: http://dx.doi.org/10.3892/ijmm.2019.4208

Mouse / Not Cited
17-0801 was used in Flow cytometry/Cell sortig to evaluate the use of temperature sensitive Mycobacterium spp. for live vaccination against Mycobacterium tuberculosis and Mycobacterium abscessus.

Scientific reports (Nov 2017; 7: )
"A temperature sensitive Mycobacterium paragordonae induces enhanced protective immune responses against mycobacterial infections in the mouse model."
Author(s): Kim BJ, Kim BR, Kook YH, Kim BJ
PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-15458-7

Mouse / Not Cited
17-0801 was used in Flow cytometry/Cell sortig to provide a solid foundation for seeking effective therapies for promoting transplantation tolerance in settings of CMV infection.

Blood advances (Mar 2018; 2: 669)
"Murine CMV induces type 1 IFN that impairs differentiation of MDSCs critical for transplantation tolerance."
Author(s): Dangi A, Zhang L, Zhang X, Luo X
PubMed Article URL: http://dx.doi.org/10.1182/bloodadvances.2017012187

Mouse / Not Cited
17-0801 was used in Flow cytometry/Cell sortig to investigate the roles of CCR7 in the host defense against pulmonary infection, showing that CCR7 deficiency leads to leukocyte activation and increased infection clearance.

Infection and immunity (May 2010; 78: 2099)
"CCR7 deficiency leads to leukocyte activation and increased clearance in response to pulmonary Pseudomonas aeruginosa infection."
Author(s): Eppert BL, Motz GT, Wortham BW, Flury JL, Borchers MT
PubMed Article URL: http://dx.doi.org/10.1128/IAI.00962-09

Mouse / Not Cited
17-0801-82 was used in Flow Cytometry to provide insights for establishing a method of in vitro cartilage regeneration.

Scientific reports (Nov 2021; 11: )
"Requirement of direct contact between chondrocytes and macrophages for the maturation of regenerative cartilage."
Author(s): Kanda K, Asawa Y, Inaki R, Fujihara Y, Hoshi K, Hikita A
PubMed Article URL: http://dx.doi.org/10.1038/s41598-021-01437-6

Mouse / Not Cited
17-0801 was used in Flow cytometry/Cell sortig to investigate the role of Flt3 and Flt3L in immune tolerance, showing that Flt3L combined with rapamycin promotes cardiac allograft tolerance via dendritic cell induction.

PloS one (Jun 2013; 7: )
"Flt3L combined with rapamycin promotes cardiac allograft tolerance by inducing regulatory dendritic cells and allograft autophagy in mice."
Author(s): Xiong A, Duan L, Chen J, Fan Z, Zheng F, Tan Z, Gong F, Fang M
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0046230