Description: The eBio1D3 monoclonal antibody reacts with mouse CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, MHC class II, and CD19 form a multimeric complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells. Applications Reported: This eBio1D3 (1D3) antibody has been tested for use in flow cytometric analysis. Applications Tested: This eBio1D3 (1D3) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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. Filtration: 0.2 μm post-manufacturing filtered.

Background/Target Information
CD19 is a member of the immunoglobulin superfamily and has two Ig like domains. The CD19 molecule is expressed on 100% of the peripheral B cells as defined by expression of kappa or lambda light chains. CD19 appears to be expressed on myeloid leukemia cells, particularly those of monocytic lineage. Leukemia phenotype studies have demonstrated that the earliest and broadest B cell restricted antigen is the CD19 antigen. The receptor for CD19 is an important functional regulator of normal and malignant B cell proliferation, and is expressed in all B cell precursor leukemias. Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Besides being a signal-amplifying coreceptor for the B cell receptor (BCR), CD19 can also signal independently of BCR co-ligation and is a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell hyperactivity.

CD19 Antibody (13-0193-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (left) or 0.125 µg of Anti-Mouse CD19 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.
### Species / Dilution

#### Mouse / Not Cited

<table>
<thead>
<tr>
<th>Reference</th>
<th>Summary</th>
<th>Publication</th>
<th>PubMed Article URL</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-0193 was used in Flow cytometry/Cell sorting to define a distinct mechanism of Notch signal response that distinguishes the initial stages of murine T cell development.</td>
<td>The Journal of cell biology (Oct 2020; 219:) &quot;Notch2 complements Notch1 to mediate inductive signaling that initiates early T cell development.&quot;</td>
<td>PubMed Article URL:<a href="http://dx.doi.org/10.1083/jcb.202005093">http://dx.doi.org/10.1083/jcb.202005093</a></td>
<td>Romero-Wolf M,Shin B,Zhou W,Koizumi M,Rothenberg EV,Hosokawa H</td>
<td></td>
</tr>
<tr>
<td>13-0193 was used in Flow cytometry/Cell sorting to explore the roles of individual myeloid cell subsets in the survival of ectromelia virus infection.</td>
<td>Journal of virology (Oct 2015; 89: 9974) &quot;Redundant Function of Plasmacytoid and Conventional Dendritic Cells Is Required To Survive a Natural Virus Infection.&quot;</td>
<td>PubMed Article URL:<a href="http://dx.doi.org/10.1128/JVI.01024-15">http://dx.doi.org/10.1128/JVI.01024-15</a></td>
<td>Kaminsky LW,Sei JJ,Parekh NJ,Davies ML,Reider IE,Krouse TE,Norbury CC</td>
<td></td>
</tr>
</tbody>
</table>
13-0193 was used in Flow cytometry/Cell sorting to show that monocyte-derived inflammatory DCs are a mixture of monocyte-derived MCs that have little migratory and APC potential and bona fide pre-cDCderived, CD26-expressing inf-cDC2s that depend on Flt3L but not on GM-CSF.

Mouse / Not Cited

"ImmuneType 2 cDCs Acquire Features of cDC1s and Macrophages to Orchestrate Immunity to Respiratory Virus Infection."


PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2020.04.005

13-0193 was used in Flow cytometry/Cell sorting to investigate the mechanisms underlying the positive selection and expansion of CD5(+) B cells, showing that dermatan sulfate interacts with dead cells and regulates CD5(+) B-cell fate.

Mouse / Not Cited

"Dermatan sulfate interacts with dead cells and regulates CD5(+) B-cell fate: implications for a key role in autoimmunity."

Author(s):Wang JY,Lee J,Yan M,Rho JH,Roehrl MH

PubMed Article URL:http://dx.doi.org/10.1016/j.jpath.2011.01.028

13-0193 was used in Flow cytometry/Cell sorting to describe an evasion mechanism employed by pathogens to prevent entry into the cross-presentation pathway.

Mouse / Not Cited

"IL-23 induced in keratinocytes by endogenous TLR4 ligands polarizes dendritic cells to drive IL-22 responses to skin immunization."


PubMed Article URL:http://dx.doi.org/10.1084/jem.20150376

13-0193 was used in Flow cytometry/Cell sorting to elucidate the mechanisms behind DC-derived IL-23 in a model of skin inflammation.

Mouse / Not Cited

"Viral sequestration of antigen subverts cross presentation to CD8(+) T cells."

Author(s):Tewalt EF,Grant JM,Granger EL,Palmer DC,Heuss ND,Gregerson DS,Restifo NP,Norbury CC

PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1000457

13-0193 was used in Flow cytometry/Cell sorting to identify a link between oxidative stress and diminished IL-7R expression and function associated with defective haematologic development in a DS mouse model.

Mouse / Not Cited

"Defective hematopoietic stem cell and lymphoid progenitor development in the Ts65Dn mouse model of Down syndrome: potential role of oxidative stress."

Author(s):Lorenzo LP,Cheh H,Shatynski KE,Clark S,Yuan R,Harrison DE,Yarowsky PJ,Williams MS

PubMed Article URL:http://dx.doi.org/10.1089/ars.2010.3798

13-0193 was used in Flow cytometry/Cell sorting to elucidate the role of the AMPKa2 catalytic subunit in vascular repair following ischemia.

Mouse / Not Cited

"AMP-Activated Protein Kinase 2 in Neutrophils Regulates Vascular Repair via Hypoxia-Inducible Factor-1 and a Network of Proteins Affecting Metabolism and Apoptosis."


PubMed Article URL:http://dx.doi.org/10.1161/CIRCRESAHA.116.309937

13-0193 was used in Flow cytometry/Cell sorting to investigate thymic involution in FVB/N mice, showing that disruption of the epithelial-endothelial relationship and a progressive loss of pro-T cells precedes involution, and loss of pro-T cells is sufficient to drive premature involution, suggesting that pro-T cells are the main driver of involution.

Mouse / Not Cited

"Premature thymic involution is independent of structural plasticity of the thymic stroma."


PubMed Article URL:http://dx.doi.org/10.1002/eji.201445277

13-0193-82 was used in Flow Cytometry to reveal crucial functions of ALKBH5 in leukemogenesis and LSC/LIC self-renewal/maintenance and highlight the therapeutic potential of targeting the ALKBH5/m6A axis.

Mouse / Not Cited

Cell stem cell (Jul 2020; 27; 64)

"RNA Demethylase ALKBH5 Selectively Promotes Tumorigenesis and Cancer Stem Cell Self-Renewal in Acute Myeloid Leukemia."

PubMed Article URL: http://dx.doi.org/10.1016/j.stem.2020.04.009

13-0193 was used in Flow cytometry/Cell sorting to interrogate the regulation of parasite virulence using mosquito transmission of serially blood passaged Plasmodium chabaudi chabaudi.

Mouse / Not Cited

Nature (Jun 2013; 498; 228)

"Vector transmission regulates immune control of Plasmodium virulence."

PubMed Article URL: http://dx.doi.org/10.1038/nature12231

13-0193-82 was used in Flow Cytometry to find that TNFα-mediated alterations in CML BM stromal niches enhance support of LSC maintenance and growth via CXCL1-CXCR2 signaling and that CXCR2 inhibition effectively depletes CML LSCs.

Mouse / Not Cited

Cell reports (Jul 2021; 36; )

"TNFα-induced alterations in stromal progenitors enhance leukemic stem cell growth via CXCR2 signaling."

Author(s): Agarwali P, Li H, Choi K, Hueneeman K, He J, Welner RS, Starczynowski DT, Bhatia R
PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2021.109366

13-0193 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.

Mouse / Not Cited

Nature medicine (May 2018; 24; 450)

"Bone marrow niche trafficking of miR-126 controls the self-renewal of leukemia stem cells in chronic myelogenous leukemia."

PubMed Article URL: http://dx.doi.org/10.1038/nm.4499

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Mouse / Not Cited

Proceedings of the National Academy of Sciences of the United States of America (May 2017; 114; E3954)

"Pre/pro-B cells generate macrophage populations during homeostasis and inflammation."

Author(s): Audzevich T, Bashford-Rogers R, Mabbott NA, Frampton D, Freeman TC, Potocnik A, Kellam P, Gilroy DW
PubMed Article URL: http://dx.doi.org/10.1073/pnas.1616417114

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Mouse / Not Cited

Nature communications (Jan 2022; 13; )

"A molecular atlas of innate immunity to adjuvanted and live attenuated vaccines, in mice."

Author(s): Lee A, Scott MKD, Wimmers F, Arunchalam PS, Luo W, Fox CB, Tomai M, Khatiri P, Pulendran B
PubMed Article URL: http://dx.doi.org/10.1038/s41467-021-28157-z

13-0193 was used in Flow cytometry/Cell sorting to study the role of TNFα receptors in the thymic development of Treg cells.

Mouse / Not Cited

Nature immunology (May 2014; 15; 473)

"Costimulation via the tumor-necrosis factor receptor superfamily couples TCR signal strength to the thymic differentiation of regulatory T cells."

Author(s): Mahmud SA, Manlove LS, Schmitz HM, Xing Y, Wang Y, Owen DL, Schenkel JM, Boomer JS, Green JM, Yagita H, Chi H, Hogquist KA, Farrar MA
PubMed Article URL: http://dx.doi.org/10.1038/nature14672

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13-0193-82 was used in Flow Cytometry to investigate how different subtypes of T cell antigen-presenting cell contribute to determining viral set point and disease outcome.

**Mouse / Not Cited**

**Immunity (Nov 2017; 47: 943)**

"Dichotomous Expression of TNF Superfamily Ligands on Antigen-Presenting Cells Controls Post-priming Anti-viral CD4-suppressor T Cell Immunity."


PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2017.10.014

13-0193 was used in Magnetic cell separation to investigate whether GALT and/or mesenteric lymph nodes are required for intestinal TH17 differentiation, showing that specific microbiota-induced intestinal TH17 differentiation requires MHC class II.

**Mouse / Not Cited**

**Journal of Immunology (Baltimore, Md.) (1950) (Jul 2014; 193: 431)**

"Specific microbiota-induced intestinal TH17 differentiation requires MHC class II but not GALT and mesenteric lymph nodes."

Author(s): Geem D, Medina-Contreras O, McBride M, Newberry RD, Koni PA, Denning TL

PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1303167

13-0193 was used in Flow Cytometry/Cell sorting to characterize the previously unrecognized capacity of the thymus to sustain T cell development during bone marrow progenitor deprivation.

**Mouse / Not Cited**


"Thymus-autonomous T cell development in the absence of progenitor import."

Author(s): Martins VC, Ruggiero E, Schlenner SM, Madan V, Schmitt M, Fink PJ, von Kalle C, Rodewald HR

PubMed Article URL: http://dx.doi.org/10.1084/jem.20120846

13-0193 was used in Flow Cytometry/Cell sorting to study the connection between phospholipid transport and B lymphocyte function.

**Mouse / Not Cited**

**Nature Immunology (May 2011; 12: 441)**

"ATP11C is critical for the internalization of phosphatidylserine and differentiation of B lymphocytes."


PubMed Article URL: http://dx.doi.org/10.1038/ni.2011

13-0193 was used in Flow Cytometry/Cell sorting to demonstrate an important role for SIRT1 in leukemia development.

**Mouse / Not Cited**

**The Journal of Clinical Investigation (Jun 2019; 129: 2685)**

"SIRT1 regulates metabolism and leukemogenic potential in CML stem cells."


PubMed Article URL: http://dx.doi.org/10.1172/JCI127080

13-0193 was used in Flow Cytometry/Cell sorting to investigate the role of PhoP in oral infections, showing that virulence of Yersinia pseudotuberculosis is influenced by PhoP and intra-species variations.

**Mouse / Not Cited**

**PLoS ONE (Nov 2015; 9: )**

"Influence of PhoP and intra-species variations on virulence of Yersinia pseudotuberculosis during the natural oral infection route."

Author(s): Pisano F, Heine W, Rosenheinrich M, Schweer J, Nuss AM, Dersch P

PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0103541

13-0193 was used in Flow Cytometry/Cell sorting to explore the therapeutic potential of DMSCs for treatment of autoimmune disorders.

**Mouse / Not Cited**

**Stem Cell Research & Therapy (Mar 2016; 7: )**

"Restained Th17 response and myeloid cell infiltration into the central nervous system by human decidua-derived mesenchymal stem cells during experimental autoimmune encephalomyelitis."


13-0193 was used in Flow Cytometry/Cell sorting to characterise the previously unrecognised capacity of the thymus to sustain T cell development during bone marrow progenitor deprivation.

**Mouse / Not Cited**

**Blood (Nov 2009; 114: 4721)**

"The transcription factors STAT5A/B regulate GM-CSF-mediated granulopoiesis."

Author(s): Kimura A, Rieger M A, Simone JM, Chen W, Wickre MC, Zhu BM, Hoppe PS, O'Shea JJ, Schroeder T, Hennighausen L

PubMed Article URL: http://dx.doi.org/10.1182/blood-2009-04-216390

13-0193 was used in Flow cytometry/Cell sorting to investigate the effect of combined targeting of MEK/ERK and JAK/STAT signalling on the murine myeloproliferative neoplasm.

Mouse / Not Cited

The Journal of clinical investigation (Jun 2014; 124: 2762)
"Combined MEK and JAK inhibition abrogates murine myeloproliferative neoplasm."
PubMed Article URL: http://dx.doi.org/10.1172/JCI74182

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Mouse / Not Cited

The Journal of clinical investigation (Jan 2021; 131: )
"Bone marrow adipogenic lineage precursors promote osteostalogenesis in bone remodeling and pathologic bone loss."
PubMed Article URL: http://dx.doi.org/10.1172/JCI140214

13-0193 was used in Flow cytometry/Cell sorting to show that targeting of interleukin-1 receptor accessory protein via RNA interference, genetic deletion, or antibodies inhibits acute myeloid leukaemia pathogenesis in vitro and in vivo.

Mouse / Not Cited

"MicroRNA-21 is Required for Hematopoietic Cell Viability After Radiation Exposure."
Author(s): Puccetti MV, Adams CM, Dan TD, Palanagi A, Simone BA, DeAngelis T, Eschen CM, Simone NL
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Mouse / Not Cited

eLife (Nov 2018; 7: )
"A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment."
Author(s): Ng KK, Yui MA, Mehta A, Siu S, Irwin B, Pease S, Hirose S, Elowitz MB, Rothenberg EV, Kueh HY
PubMed Article URL: http://dx.doi.org/10.7554/eLife.37851

13-0193-82 was used in Flow cytometry to establish extrafollicular B cell differentiation into short-lived AFCs as a key mechanism of anti-DNA autoreactivity and reveal a major contribution of pDCs, endosomal Toll-like receptors (TLRs), and IFN-I to this pathway.

Mouse / Not Cited

Immunity (Jun 2020; 52: 1022)
"Plasmacytoid Dendritic Cells and Type I Interferon Promote Extracellular B Cell Responses to Extracellular Self-DNA."
Author(s): Soni C, Perez OA, Voss WN, Pucella JN, Serpas L, Mehl J, Goike J, Georgiou G, Ippolito GC, Sisirak V, Reizis B
PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2020.04.015

1 Immunohistochemistry References

Species / Dilution

Summary

13-0193 was used in Immunohistochemistry to analyse evidence that CD3(-)IL-7R(+) PP inducer cells are involved in the formation of B and T cell zones in neonatal mice.

Mouse / Not Cited

"Peyer's patch inducer cells play a leading role in the formation of B and T cell zone architecture."
Author(s): Nakagawa R, Togawa A, Nagasawa T, Nishikawa S
PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1202766

6 Miscellaneous PubMed References

Species / Dilution

Summary

13-0193 was used in Flow cytometry/Cell sorting to study the activation of Bcl11b, which controls T-cell fate commitment.

Mouse / 1:100

eLife (Nov 2018; 7: )
"A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment."
Author(s): Ng KK, Yui MA, Mehta A, Siu S, Irwin B, Pease S, Hirose S, Elowitz MB, Rothenberg EV, Kueh HY
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Mouse / Not Cited

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PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2020.04.015


Thermo Fisher Scientific
10255 Science Center Drive
San Diego, CA 92121
13-0193 was used in Magnetic cell separation to identify granulopoiesis-mediated augmentation of alloimmunity as a novel link between innate and adaptive immune responses after organ transplantation.

Blood (Dec 2011; 118: 6172)
"Emergency granulopoiesis promotes neutrophil-dendritic cell encounters that prevent mouse lung allograft acceptance."
PubMed Article URL: http://dx.doi.org/10.1182/blood-2011-04-347823

13-0193 was used in Magnetic cell separation to confirm that long-term cultures are a physiologically relevant culture system for the in vitro development of a novel dendritic cell type from spleen progenitors.

Mouse / Not Cited
Blood (May 2010; 115: 3678)
"Delineation of precursors in murine spleen that develop in contact with splenic endothelium to give novel dendritic-like cells."
Author(s): Tan JK, Periasamy P, O'Neill HC
PubMed Article URL: http://dx.doi.org/10.1182/blood-2009-06-227108

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"Loss of Oncostatin M Signaling in Adipocytes Induces Insulin Resistance and Adipose Tissue Inflammation in Vivo."
Author(s): Elks CM, Zhao P, Grant RW, Hang H, Bailey JL, Burk DH, McNulty MA, Mynatt RL, Stephens JM
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M116.739110

13-0193 was used in Magnetic cell separation to elucidate the signalling events in macrophages triggered by helminth immunomodulator cystatin, showing cytokine signalling is regulated in these macrophages.

PLoS pathogens (Jan 2011; 7: )
"A helminth immunomodulator exploits host signaling events to regulate cytokine production in macrophages."
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13-0193 was used in Magnetic cell separation to investigate the mechanism by which the helminth immunomodulator AvCystatin induces a novel regulatory macrophage able to protect against allergic mucosal inflammation in mice.

Journal of immunology (Baltimore, Md. : 1950) (Feb 2015; 194: 1555)
"A novel regulatory macrophage induced by a helminth molecule instructs IL-10 in CD4+ T cells and protects against mucosal inflammation."
PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1401217

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Immunogenetics (Aug 2012; 64: 591)
"Global transcriptional analysis of primitive thymocytes reveals accelerated dynamics of T cell specification in fetal stages."
Author(s): Belyaev NN, Biro J, Athanasakis D, Fernandez-Reyes D, Potocnik AJ
PubMed Article URL: http://dx.doi.org/10.1007/s00251-012-0620-6