

Biotin anti-mouse CD62L Antibody

Catalog# / Size	104403 / 50 µg 104404 / 500 µg
Clone	MEL-14
Regulatory Status	RUO
Other Names	L-selectin, LECAM-1, Ly-22, LAM-1, MEL-14
Isotype	Rat IgG2a, κ
Description	CD62L is a 74-95 kD glycoprotein also known as L-selectin, LECAM-1, Ly-22, LAM-1, and MEL-14. It is a member of the selectin family and is expressed on the majority of B and naïve T cells, a subset of memory T cells, monocytes, granulocytes, most thymocytes, and a subset of NK cells. CD62L is important in lymphocyte homing to high endothelial venules (HEV) in peripheral lymph nodes and leukocyte "rolling" on activated endothelium. CD62L also contributes to neutrophil emigration at inflammatory sites. CD62L is rapidly shed from lymphocytes and neutrophils upon cellular activation and the expression levels of CD62L (in conjunction with other markers) have been used to distinguish naïve, effector, and memory T cells. CD62L has been reported to interact with CD34, GlyCAM-1, and MAdCAM-1.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	C3H/eb mouse B lymphoma 38C-13
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation ¹⁻³ , complement-dependent cytotoxicity ⁴ , <i>in vivo</i> and <i>in vitro</i> blocking of adhesion ^{1-3,5} , and immunohistochemical staining of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections ⁶ . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 104457-104462).
Application References	<ol style="list-style-type: none"> Gallatin WM, <i>et al.</i> 1983. <i>Nature</i> 304:30. (IP, Block) Siegelman MH, <i>et al.</i> 1990. <i>Cell</i> 61:611. (IP, Block) Lewinsohn DM, <i>et al.</i> 1987. <i>J. Immunol.</i> 138:4313. (IP, Block) Iwabuchi K, <i>et al.</i> 1991. <i>Immunobiology</i> 182:161. (CMCD) Pizcueta P, <i>et al.</i> 1994. <i>Am. J. Pathol.</i> 145:461. Reichert RA, <i>et al.</i> 1986. <i>J. Immunol.</i> 136:3535. (IHC, FC) Olver S, <i>et al.</i> 2006. <i>Cancer Res.</i> 66:571. Fukushima A, <i>et al.</i> 2006. <i>Invest. Ophthalmol. Vis. Sci.</i> 47:657. PubMed Benson MJ, <i>et al.</i> 2007. <i>J. Exp. Med.</i> doi:10.1084/jem.20070719. (FC) PubMed Chappaz S, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2007-02-074245. (FC) PubMed Lee JW, <i>et al.</i> 2006. <i>Nature Immunol.</i> 8:181. Shigeta A, <i>et al.</i> 2008. <i>Blood</i> 112:4915 (FC) PubMed

Product Citations

1. Kim K, et al. 2016. PLoS One. 11: 0148576. [PubMed](#)
2. Krueger PD, et al. 2021. *Immunity.* 54(4):687-701.e4. [PubMed](#)
3. Gaylo-Moynihan A et al. 2019. *Immunity.* 51(2):298-309 . [PubMed](#)
4. Skirecki T, et al. 2020. *JCI Insight.* 5: . [PubMed](#)
5. Jain A, et al. 2020. *Nat Immunol.* 0.920138889. [PubMed](#)
6. Mohammed RN, et al. 2019. *Sci Rep.* 4.185416667. [PubMed](#)

RRID

AB_313090 (BioLegend Cat. No. 104403)
AB_313091 (BioLegend Cat. No. 104404)

Antigen Details

Structure	Selectin, 95 kD (neutrophils) or 74 kD (lymphocytes)
Distribution	Subsets of B and T cells, monocytes, granulocytes, subset of NK cells
Function	Lymphocyte homing to HEV, rolling on activated endothelium
Ligand/Receptor	CD34, GlyCAM-1, MAdCAM-1
Cell Type	B cells, Granulocytes, Monocytes, Neutrophils, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Barclay AN, et al. 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press.2. Kishimoto TK, et al. 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244.3. Tedder TF, et al. 1995. <i>J. Exp. Med.</i> 181:2259.
Gene ID	20343

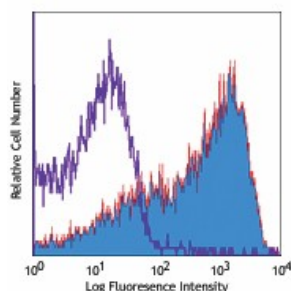
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse CD62L, Biotin anti-mouse CD62L, FITC anti-mouse CD62L, PE anti-mouse CD62L, PE/Cyanine5 anti-mouse CD62L, Purified anti-mouse CD62L, PE/Cyanine7 anti-mouse CD62L, Alexa Fluor® 488 anti-mouse CD62L, Alexa Fluor® 647 anti-mouse CD62L, Pacific Blue™ anti-mouse CD62L, Alexa Fluor® 700 anti-mouse CD62L, APC/Cyanine7 anti-mouse CD62L, PerCP/Cyanine5.5 anti-mouse CD62L, PerCP anti-mouse CD62L, Brilliant Violet 421™ anti-mouse CD62L, Brilliant Violet 570™ anti-mouse CD62L, Brilliant Violet 605™ anti-mouse CD62L, Brilliant Violet 510™ anti-mouse CD62L, Purified anti-mouse CD62L (Maxpar® Ready), Brilliant Violet 711™ anti-mouse CD62L, Brilliant Violet 785™ anti-mouse CD62L, PE/Dazzle™ 594 anti-mouse CD62L, APC/Fire™ 750 anti-mouse CD62L, TotalSeq™-A0112 anti-mouse CD62L, Brilliant Violet 650™ anti-mouse CD62L, TotalSeq™-C0112 anti-mouse CD62L, Ultra-LEAF™ Purified anti-mouse CD62L, KIRAVIA Blue 520™ anti-mouse CD62L, TotalSeq™-B0112 anti-mouse CD62L

Product Data



C57BL/6 mouse splenocytes were stained with biotinylated CD62L (clone MEL-14) (filled histogram) or rat IgG2a isotype control (open histogram), followed by Sav-PE.

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