

Alexa Fluor® 647 anti-mouse CD62L Antibody

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| Catalog# / Size | 104421 / 25 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

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| Verified Reactivity | Mouse |
| Antibody Type | Monoclonal |
| Host Species | Rat |
| Immunogen | C3H/HeB 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 Alexa Fluor® 647 under optimal conditions. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. 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 other applications. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses |
| Excitation Laser | Red Laser (633 nm) |
| 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 | 1. Gallatin WM, <i>et al.</i> 1983. <i>Nature</i> 304:30. (IP, Block) 2. Siegelman MH, <i>et al.</i> 1990. <i>Cell</i> 61:611. (IP, Block) 3. Lewinsohn DM, <i>et al.</i> 1987. <i>J. Immunol.</i> 138:4313. (IP, Block) 4. Iwabuchi K, <i>et al.</i> 1991. <i>Immunobiology</i> 182:161. (CMCD) |
| (PubMed link indicates BioLegend citation) | |

5. Pizcueta P, *et al.* 1994. *Am. J. Pathol.* 145:461.
6. Reichert RA, *et al.* 1986. *J. Immunol.* 136:3535. (IHC, FC)
7. Olver S, *et al.* 2006. *Cancer Res.* 66:571.
8. Fukushima A, *et al.* 2006. *Invest. Ophthalmol. Vis. Sci.* 47:657. [PubMed](#)
9. Benson MJ, *et al.* 2007. *J. Exp. Med.* doi:10.1084/jem.20070719. (FC) [PubMed](#)
10. Chappaz S, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074245. (FC) [PubMed](#)
11. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181.
12. Shigeta A, *et al.* 2008. *Blood* 112:4915 (FC) [PubMed](#)
13. de Vries VC, *et al.* 2009. *Am. J. Transplant.* 9:2270 [PubMed](#)

Product Citations

1. Mogilenko DA, *et al.* 2020. *Immunity.* 54(1):99-115.e12. [PubMed](#)
2. Schmidleithner L *et al.* 2019. *Immunity.* 50(5):1232-1248 . [PubMed](#)
3. del Rio ML, *et al.* 2021. *Transl Res.* Online ahead of print.. [PubMed](#)
4. Wang Z *et al.* 2018. *Immunity.* 49(1):80-92 . [PubMed](#)
5. Meininger I, *et al.* 2016. *Nat Commun.* 7: 11292. [PubMed](#)

RRID

AB_493379 (BioLegend Cat. No. 104421)

Antigen Details

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|---------------------------|--|
| 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, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Kishimoto TK, <i>et al.</i> 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244. 3. Tedder TF, <i>et al.</i> 1995. <i>J. Exp. Med.</i> 181:2259. |
| Gene ID | 20343 |

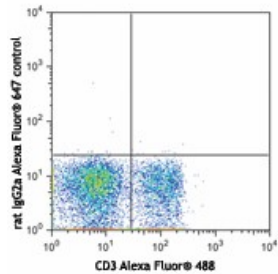
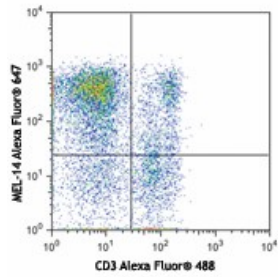
Related Protocols

[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 CD3 Alexa Fluor® 488 and CD62L (clone MEL-14) Alexa Fluor® 647 (top) or rat IgG2a Alexa Fluor® 647 isotype control (bottom).

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