

Alexa Fluor[®] 700 anti-human CD62L Antibody

Catalog# / Size	304820 / 100 µg
Clone	DREG-56
Regulatory Status	RUO
Workshop	V S056
Other Names	L-selectin, LECAM-1, LAM-1, Leu-8, TQ-1
Isotype	Mouse IgG1, κ
Description	CD62L is a 74-95 kD single chain type I glycoprotein referred to as L-selectin or LECAM-1. It is expressed on most peripheral blood B cells, subsets of T and NK cells, monocytes, granulocytes, and certain hematopoietic malignant cells. CD62L binds to carbohydrates present on certain glycoforms of CD34, glycam-1, and MAdCAM-1 and with a low affinity to anionic oligosaccharide sequences related to sialylated Lewis X (sLex, CD15s) through its C-type lectin domain. CD62L is important for the homing of naïve lymphocytes to high endothelial venules in peripheral lymph nodes and Peyer's patches. It also plays a role in leukocyte rolling on activated endothelial cells.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee, Cow
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Concentrated supernatant from PMA-activated human peripheral blood leukocytes
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 [®] 700 under optimal conditions.
Concentration	0.5 mg/ml
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is highly recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633nm / 635nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ^{2,3,9} and <i>in vitro</i> blocking of lymphocytes binding to high endothelial venules (HEV) ² . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 304853-304858).
Application References	<ol style="list-style-type: none"> Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. Kishimoto TK, <i>et al.</i> 1990. <i>Proc. Natl. Acad. Sci. USA</i> 87:2244. (WB, Block) Jutila M, <i>et al.</i> 2002. <i>J. Immunol.</i> 169:1768. (WB)
(PubMed link indicates BioLegend citation)	

4. Tamassia N, *et al.* 2008. *J. Immunol.* 181:6563. (FC) [PubMed](#)
5. Kmiecik M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) [PubMed](#)
6. Thakral D, *et al.* 2008. *J. Immunol.* 180:7431. (FC) [PubMed](#)
7. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
8. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
9. Koenig JM, *et al.* 1996. *Pediatr. Res.* 39:616. (WB)
10. Shi C, *et al.* 2011. *J. Immunol.* 187:5293. (FC) [PubMed](#)
11. Burges M, *et al.* 2013. *Clin Cancer Res.* 19:5675. [PubMed](#)
12. Cash JL, *et al.* 2013. *EMBO Rep.* 14:999. (FC) [PubMed](#)

Product Citations

1. Satria RD, *et al.* 2021. *J Immunol Res.* 2021:6654617. [PubMed](#)
2. Eller MA, *et al.* 2016. *J Virol.* 90: 4005-4016. [PubMed](#)
3. Gurusamy D, *et al.* 2020. *Cancer Cell.* 37(6):818-833.e9. [PubMed](#)
4. Qi Y, *et al.* 2012. *PLoS One.* 7:e39072. [PubMed](#)
5. Rusconi M, *et al.* 2017. *Sci Rep.* 5.745138889. [PubMed](#)

RRID

AB_493769 (BioLegend Cat. No. 304820)

Antigen Details

Structure	Selectin, single chain glycoprotein, 74-95 kD
Distribution	Majority of B cells, naïve T cells, subset of memory T and NK cells, monocytes, granulocytes, thymocytes
Function	Leukocyte homing, leukocyte tethering, rolling
Ligand/Receptor	CD34, GlyCAM, MAdCAM-1
Cell Type	B cells, Granulocytes, Monocytes, Neutrophils, NK cells, T cells, Thymocytes, 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. Kishimoto T, <i>et al.</i> 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244. 2. Kishimoto T, <i>et al.</i> 1991. <i>Blood</i> 78:805.

Gene ID

[6402](#)

Related Protocols

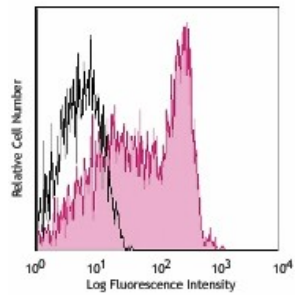
[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD62L, FITC anti-human CD62L, PE anti-human CD62L, PE/Cyanine5 anti-human CD62L, Purified anti-human CD62L, APC/Cyanine7 anti-human CD62L, Alexa Fluor® 488 anti-human CD62L, Alexa Fluor® 647 anti-human CD62L, Alexa Fluor® 700 anti-human CD62L, PE/Cyanine7 anti-human CD62L, PerCP/Cyanine5.5 anti-human CD62L, Pacific Blue™ anti-human CD62L, Brilliant Violet 421™ anti-human CD62L, Brilliant Violet 785™ anti-human CD62L, Brilliant Violet 650™ anti-human CD62L, PE/Dazzle™ 594 anti-human CD62L, Brilliant Violet 605™ anti-human CD62L, Purified anti-human CD62L (Maxpar® Ready), APC/Fire™ 750 anti-human CD62L, Brilliant Violet 510™ anti-human CD62L, TotalSeq™-A0147 anti-human CD62L, TotalSeq™-B0147 anti-human CD62L, TotalSeq™-C0147 anti-human CD62L, Ultra-LEAF™ Purified anti-human CD62L, Brilliant Violet 711™ anti-human CD62L, Spark NIR™ 685 anti-human CD62L, TotalSeq™-D0147 anti-human CD62L, APC/Fire™ 810 anti-human CD62L

Product Data

Human peripheral blood lymphocytes
stained with DREG-56 Alexa Fluor® 700



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