

PE/Cyanine5 anti-human CD62L Antibody

Catalog# / Size	304808 / 100 tests
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 and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE/Cyanine5 under optimal conditions.
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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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).
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy5 to PE/Cyanine5. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine5 products. Please contact Technical Service if you have any questions.
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) Tamassia N, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:6563. (FC) PubMed Kmieciak M, <i>et al.</i> 2009. <i>J. Transl. Med.</i> 7:89. (FC) PubMed Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) PubMed
(PubMed link indicates BioLegend citation)	

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. Jung IY, *et al.* 2022. *Sci Transl Med.* 14:eabn7336. [PubMed](#)
2. Torres-Ruiz J, *et al.* 2021. *Front Immunol.* 12:689966. [PubMed](#)
3. de Andrade LF, *et al.* 2019. *JCI Insight.* 4:e133103. [PubMed](#)
4. Headland S, *et al.* 2014. *Sci Rep.* 4:5237. [PubMed](#)

RRID AB_314468 (BioLegend Cat. No. 304808)

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

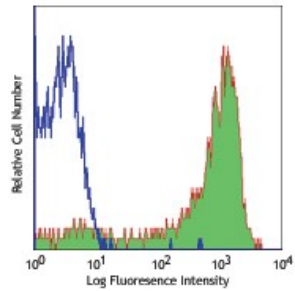
[Cell Surface Flow Cytometry Staining Protocol](#)

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 PE/Cyanine5



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