

PE/Cyanine7 anti-human CD62L Antibody

Catalog# / Size	304821 / 25 tests 304822 / 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/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
(PubMed link indicates	2. Kishimoto TK, <i>et al.</i> 1990. <i>Proc. Natl. Acad. Sci. USA</i> 87:2244. (WB, Block)

- BioLegend citation)**
3. Jutila M, et al. 2002. *J. Immunol.* 169:1768. (WB)
 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. Chabi S, et al. 2020. *Cell Reports.* 29(8):2307-2320.e6.. [PubMed](#)
 2. Das RK, et al. 2019. *Cancer Discov.* 9:492. [PubMed](#)
 3. Kim C, et al. 2018. *Cell Rep.* 25:2148. [PubMed](#)
 4. Konadu K, et al. 2015. *J Infect Dis.* 211:1712. [PubMed](#)
 5. Shi Z, et al. 2021. *Ann Clin Transl Neurol.* 8:43. [PubMed](#)
 6. Giamarellos-Bourboulis EJ, et al. 2020. *Cell.* 183(2):315-323.e9. [PubMed](#)
 7. Toews K, et al. 2020. *Mol Carcinog.* 724:59. [PubMed](#)
 8. Moorlag SJCFM, et al. 2020. *Cell Rep.* 33:108387. [PubMed](#)
 9. Zhu Y, et al. 2019. *Cell Stem Cell.* 25:542. [PubMed](#)
 10. Hu N, et al. 2014. *PLoS One.* 9:99671. [PubMed](#)
 11. Singh N, et al. 2016. *Sci Transl Med.* 8: 320ra3. [PubMed](#)
 12. Veerapathran A, et al. 2011. *Blood.* 118:5671. [PubMed](#)
 13. Li YR, et al. 2021. *Cell Rep Med.* 2:100449. [PubMed](#)
 14. Liao HQ, et al. 2021. *Am J Reprod Immunol.* 86:e13406. [PubMed](#)
 15. Crompton J, et al. 2015. *Cancer Res.* 75:296. [PubMed](#)
 16. Zou F, et al. 2019. *Nat Commun.* 10:4109. [PubMed](#)

RRID AB_830800 (BioLegend Cat. No. 304821)
AB_830801 (BioLegend Cat. No. 304822)

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, et al. 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244.2. Kishimoto T, et al. 1991. <i>Blood</i> 78:805.

Gene ID [6402](#)

Related Protocols

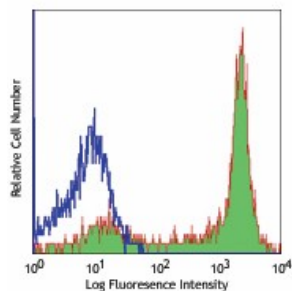
[Cell Surface Flow Cytometry Staining Protocol](#)

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/Cyanine7

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587