

Ultra-LEAF™ Purified anti-human CD62L Antibody

Catalog# / Size	304853 / 100 µg 304854 / 1 mg 304855 / 5 mg 304856 / 25 mg 304857 / 50 mg 304858 / 100 mg
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	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. 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. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested WB, Block - Reported in the literature, not verified in house
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 ≤ 0.5 µg per million 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: 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	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.

(PubMed link indicates BioLegend citation)

2. Kishimoto TK, et al. 1990. *Proc. Natl. Acad. Sci. USA* 87:2244. (WB, Block)
3. Jutila M, et al. 2002. *J. Immunol.* 169:1768. (WB)
4. Tamassia N, et al. 2008. *J. Immunol.* 181:6563. (FC) [PubMed](#)
5. Kmieciak 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](#)

RRID

AB_2860800 (BioLegend Cat. No. 304853)
AB_2860801 (BioLegend Cat. No. 304854)
AB_2860802 (BioLegend Cat. No. 304855)
AB_2860803 (BioLegend Cat. No. 304856)
AB_2860804 (BioLegend Cat. No. 304857)
AB_2860805 (BioLegend Cat. No. 304858)

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](#)

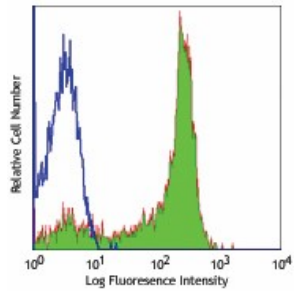
Related Protocols

[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 Ultra-LEAF™ purified
DREG-56, followed by anti-mouse IgGs
FITC

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