Brilliant Violet 785™ anti-human CD62L Antibody

Catalog# / Size	304829 / 25 tests 304830 / 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 Brilliant Violet 785™ 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. Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting[2,3,9] and *in vitro* 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

(PubMed link indicates BioLegend citation)

1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
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

Product Citations

1. Huang X, *et al.* 2021. Nat Nanotechnol. 16:214. PubMed
2. Abdul-Jawad S, *et al.* 2021. Cancer Cell. 39(2):257-275.e6. PubMed
3. Laing AG, *et al.* 2020. Nat Med. 26:1623. PubMed
4. Vardam-Kaur T, *et al.* 2021. Oncotarget. 12:2051. PubMed
5. Reuschl AK, *et al.* 2022. Cell Rep. 39:110650. PubMed

RRID	AB_2629516 (BioLegend Cat. No. 304829) AB_2629555 (BioLegend Cat. No. 304830)

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

1. Kishimoto T, *et al.* 1990. *P. Natl. Acad. Sci. USA* 87:2244.
2. Kishimoto T, *et al.* 1991. *Blood* 78:805.

Gene ID	6402

Related Protocols

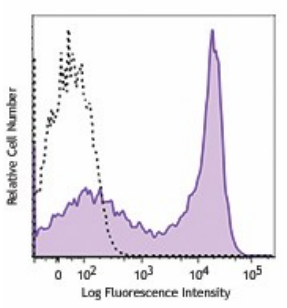
Cell Surface Flow Cytometry Staining Protocol

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 were stained with CD62L (clone DREG-56) Brilliant Violet 785™ (filled histogram) or mouse IgG1, κ Brilliant Violet 785™ isotype control (open histogram).

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