Spark PLUS UV395™ anti-human CD62L Antibody

Catalog# / Size	304877 / 25 tests 304878 / 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 Spark PLUS UV395™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 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

RRID

AB_3717226 (BioLegend Cat. No. 304877)
AB_3717226 (BioLegend Cat. No. 304878)

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

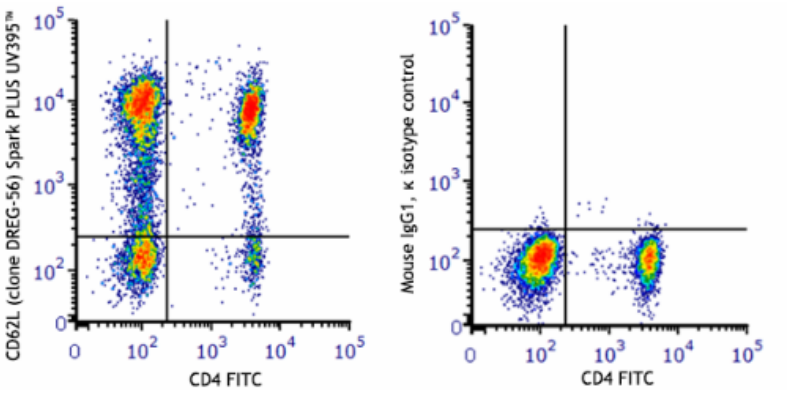
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

TotalSeq™-D0147 anti-human CD62L, APC/Fire™ 810 anti-human CD62L, PE/Dazzle™ 594 anti-human CD62L, FITC anti-human CD62L, PerCP/Fire™ 806 anti-human CD62L, Purified anti-human CD62L (Maxpar® Ready), Brilliant Violet 510™ anti-human CD62L, APC/Fire™ 750 anti-human CD62L, Pacific Blue™ anti-human CD62L, PE/Cyanine5 anti-human CD62L, PE anti-human CD62L, Purified anti-human CD62L, Spark Blue™ 574 anti-human CD62L (Flexi-Fluor™), Spark PLUS B550™ anti-human CD62L Antibody, GMP PE/Dazzle™ 594 anti-human CD62L, APC anti-human CD62L, GMP APC anti-human CD62L, GMP FITC anti-human CD62L, StarBright UltraViolet 740 anti-human CD62L, Spark PLUS UV395™ anti-human CD62L, Alexa Fluor® 700 anti-human CD62L, PE/Cyanine7 anti-human CD62L, PerCP/Cyanine5.5 anti-human CD62L, TotalSeq™-A0147 anti-human CD62L, TotalSeq™-C0147 anti-human CD62L, Ultra-LEAF™ Purified anti-human CD62L, Brilliant Violet 711™ anti-human CD62L, Brilliant Violet 785™ anti-human CD62L, Brilliant Violet 650™ anti-human CD62L, Brilliant Violet 605™ anti-human CD62L, APC/Cyanine7 anti-human CD62L, TotalSeq™-B0147 anti-human CD62L, Brilliant Violet 421™ anti-human CD62L, Biotin anti-human CD62L, PE/Fire™ 744 anti-human CD62L, Alexa Fluor® 488 anti-human CD62L, Alexa Fluor® 647 anti-human CD62L, Spark NIR™ 685 anti-human CD62L

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD4 (clone SK3) FITC and anti-human CD62L (clone DREG-56) Spark PLUS UV395™ (left) or mouse IgG1, κ Spark PLUS UV395™ isotype control (right).

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