Spark PLUS B550™ anti-mouse CD62L Antibody

Catalog# / Size	104467 / 25 µg 104468 / 100 µg
Clone	MEL-14
Regulatory Status	RUO
Other Names	L-selectin, LECAM-1, Ly-22, LAM-1, MEL-14
Isotype	Rat IgG2a, κ
Description	CD62L is a 74-95 kD glycoprotein also known as L-selectin, LECAM-1, Ly-22, LAM-1, and MEL-14. It is a member of the selectin family and is expressed on the majority of B and naïve T cells, a subset of memory T cells, monocytes, granulocytes, most thymocytes, and a subset of NK cells. CD62L is important in lymphocyte homing to high endothelial venules (HEV) in peripheral lymph nodes and leukocyte "rolling" on activated endothelium. CD62L also contributes to neutrophil emigration at inflammatory sites. CD62L is rapidly shed from lymphocytes and neutrophils upon cellular activation and the expression levels of CD62L (in conjunction with other markers) have been used to distinguish naïve, effector, and memory T cells. CD62L has been reported to interact with CD34, GlyCAM-1, and MAdCAM-1.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	C3H/eb mouse B lymphoma 38C-13
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS B550™ under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation[1-3], complement-dependent cytotoxicity[4], *in vivo* and *in vitro* blocking of adhesion[1-3,5], and immunohistochemical staining of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections[6]. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 104457-104462).

Application References **(PubMed link indicates BioLegend citation)**	1. Gallatin WM, *et al.* 1983. *Nature* 304:30. (IP, Block) 2. Siegelman MH, *et al.* 1990. *Cell* 61:611. (IP, Block) 3. Lewinsohn DM, *et al.* 1987. *J. Immunol.* 138:4313. (IP, Block) 4. Iwabuchi K, *et al.* 1991. *Immunobiology* 182:161. (CMCD) 5. Pizcueta P, *et al.* 1994. *Am. J. Pathol.* 145:461. 6. Reichert RA, *et al.* 1986. *J. Immunol.* 136:3535. (IHC, FC) 7. Olver S, *et al.* 2006. *Cancer Res.* 66:571. 8. Fukushima A, *et al.* 2006. *Invest. Ophthalmol. Vis. Sci.* 47:657. PubMed 9. Benson MJ, *et al.* 2007. *J. Exp. Med.* doi:10.1084/jem.20070719. (FC) PubMed 10. Chappaz S, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074245. (FC) PubMed 11. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181. 12. Shigeta A, et al. 2008. *Blood* 112:4915 (FC) PubMed See More
RRID	AB_3698893 (BioLegend Cat. No. 104467) AB_3698893 (BioLegend Cat. No. 104468)

Antigen Details

Structure	Selectin, 95 kD (neutrophils) or 74 kD (lymphocytes)
Distribution	Subsets of B and T cells, monocytes, granulocytes, subset of NK cells
Function	Lymphocyte homing to HEV, rolling on activated endothelium
Ligand/Receptor	CD34, GlyCAM-1, MAdCAM-1
Cell Type	B cells, Granulocytes, Monocytes, Neutrophils, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Kishimoto TK, *et al.* 1990. *P. Natl. Acad. Sci. USA* 87:2244. 3. Tedder TF, *et al.* 1995. *J. Exp. Med.* 181:2259.
Gene ID	20343

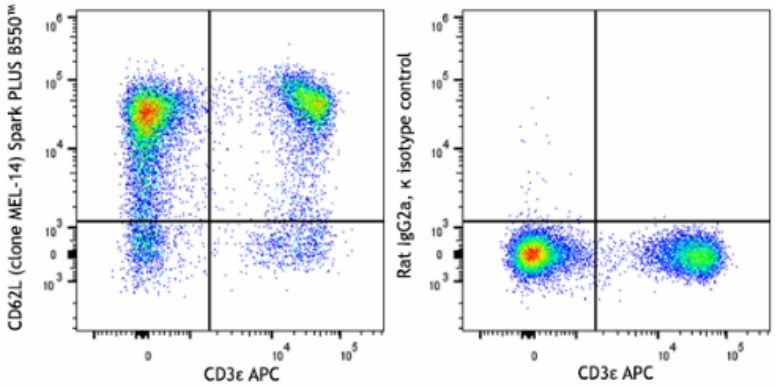
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-mouse CD62L, Biotin anti-mouse CD62L, FITC anti-mouse CD62L, PE anti-mouse CD62L, PE/Cyanine5 anti-mouse CD62L, Purified anti-mouse CD62L, PE/Cyanine7 anti-mouse CD62L, Alexa Fluor® 488 anti-mouse CD62L, Alexa Fluor® 647 anti-mouse CD62L, Pacific Blue™ anti-mouse CD62L, Alexa Fluor® 700 anti-mouse CD62L, APC/Cyanine7 anti-mouse CD62L, PerCP/Cyanine5.5 anti-mouse CD62L, PerCP anti-mouse CD62L, Brilliant Violet 421™ anti-mouse CD62L, Brilliant Violet 570™ anti-mouse CD62L, Brilliant Violet 605™ anti-mouse CD62L, Brilliant Violet 510™ anti-mouse CD62L, Purified anti-mouse CD62L (Maxpar® Ready), Brilliant Violet 711™ anti-mouse CD62L, Brilliant Violet 785™ anti-mouse CD62L, PE/Dazzle™ 594 anti-mouse CD62L, APC/Fire™ 750 anti-mouse CD62L, TotalSeq™-A0112 anti-mouse CD62L, Brilliant Violet 650™ anti-mouse CD62L, TotalSeq™-C0112 anti-mouse CD62L, Ultra-LEAF™ Purified anti-mouse CD62L, KIRAVIA Blue 520™ anti-mouse CD62L, TotalSeq™-B0112 anti-mouse CD62L, Spark Red™ 718 anti-mouse CD62L (Flexi-Fluor™), Spark PLUS B550™ anti-mouse CD62L, Spark YG™ 581 anti-mouse CD62L (Flexi-Fluor™), Spark YG™ 593 anti-mouse CD62L (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-mouse CD62L (Flexi-Fluor™) Antibody, Spark UV™ 387 anti-mouse CD62L (Flexi-Fluor™)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) APC and anti-mouse CD62L (clone MEL-14) Spark PLUS B550™ (left) or with rat IgG2a, κ Spark PLUS B550™ isotype control (right).

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