

PE/Dazzle™ 594 anti-human CD62L Antibody

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|--------------------------|---|
| Catalog# / Size | 304841 / 25 tests 304842 / 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

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| 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/Dazzle™ 594 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. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm. |
| 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). |
| Application References | 1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Kishimoto TK, <i>et al.</i> 1990. <i>Proc. Natl. Acad. Sci. USA</i> 87:2244. (WB, Block) 3. Jutila M, <i>et al.</i> 2002. <i>J. Immunol.</i> 169:1768. (WB) 4. Tamassia N, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:6563. (FC) PubMed |
| (PubMed link indicates BioLegend citation) | |

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](#)

RRID AB_2565873 (BioLegend Cat. No. 304841)
 AB_2565874 (BioLegend Cat. No. 304842)

Antigen Details

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|---------------------------|---|
| 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, <i>et al.</i> 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244. 2. Kishimoto T, <i>et al.</i> 1991. <i>Blood</i> 78:805. |

Gene ID [6402](#)

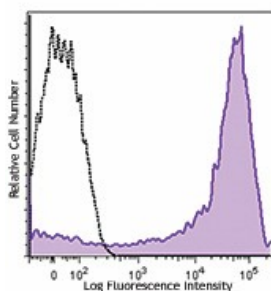
Related Protocols

[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 were stained with CD62L (clone DREG-56) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (open histogram).

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