# Purified anti-human CD62L Antibody

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| **Catalog# / Size** | 304802 / 100 µg |
| **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. |
| **Preparation** | The antibody was purified by affinity chromatography. |
| **Concentration** | 0.5 mg/ml |
| **Storage & Handling** | The antibody solution should be stored undiluted between 2°C and 8°C. |
| **Application** | FC - *Quality tested*<br>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 $10^6$ cells in 100 µl volume or 100 µl of whole blood. 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 *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
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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. Lizcano A *et al.* 2017. Blood. 129(23):3100-3110 . PubMed
2. Rodriguez L, *et al.* 2020. Cell Reports Medicine. 1(5):100078. PubMed
3. Mann ER, *et al.* 2020. Sci Immunol. :5. PubMed
4. Shi C, *et al.* 2011. J Immunol. 187:5293. PubMed
5. Zhang Y, *et al.* 2020. Front Immunol. 11:1012. PubMed
6. Syrimi E, *et al.* 2021. iScience. 24:103215. PubMed
7. Tecle E, *et al.* 2019. J Biol Chem. 294:11910. PubMed
8. Li G, *et al.* 2022. Mol Ther Oncolytics. 24:887. PubMed
9. Lazarski CA, *et al.* 2020. Cytotherapy. . PubMed
10. De Maeyer RPH, *et al.* 2020. Nat Immunol. 21:615. PubMed
11. Dinh HQ, *et al.* 2020. Immunity. 53(2):319-334.e6. PubMed

**RRID** AB_314462 (BioLegend Cat. No. 304802)

## 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

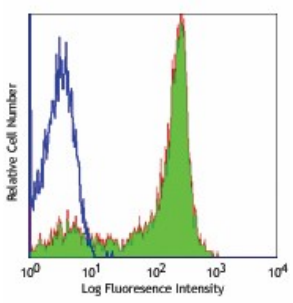
## Related Protocols

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 stained with purified DREG-56, followed by anti-mouse IgGs FITC



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