

TotalSeq™-B0147 anti-human CD62L Antibody

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| Catalog# / Size | 304849 / 10 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 |
| Barcode Sequence | GTCCTGCAACTTGA |
| 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 1 mM EDTA. |
| Preparation | The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze. |
| Application | PG - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions . |

To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.

Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.

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| 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 |
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assays (Cat. Nos. 304853-304858).

Additional Product Notes

TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. [10x Genomics Chromium System and Reagents](#)) and sequencer (e.g. Illumina analyzers) are required. Please contact [technical support](#) for more information, or visit biolegend.com/totalseq.

The barcode flanking sequences are GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Kishimoto TK, *et al.* 1990. *Proc. Natl. Acad. Sci. USA* 87:2244. (WB, Block)
- Jutila M, *et al.* 2002. *J. Immunol.* 169:1768. (WB)
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- Kmieciak M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) [PubMed](#)
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- Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
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- Burges M, *et al.* 2013. *Clin Cancer Res.* 19:5675. [PubMed](#)
- Cash JL, *et al.* 2013. *EMBO Rep.* 14:999. (FC) [PubMed](#)

RRID

AB_2800769 (BioLegend Cat. No. 304849)

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">Kishimoto T, <i>et al.</i> 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244.Kishimoto T, <i>et al.</i> 1991. <i>Blood</i> 78:805. |
| Gene ID | 6402 |

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

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

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