

## APC/Cyanine7 anti-human CD62L Antibody

<b>Catalog# / Size</b>	304813 / 25 tests 304814 / 100 tests
<b>Clone</b>	DREG-56
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V S056
<b>Other Names</b>	L-selectin, LECAM-1, LAM-1, Leu-8, TQ-1
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee, Cow
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Concentrated supernatant from PMA-activated human peripheral blood leukocytes
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with APC/Cyanine7 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: Western blotting <sup>2,3,9</sup> and <i>in vitro</i> blocking of lymphocytes binding to high endothelial venules (HEV) <sup>2</sup> . 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).
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	<ol style="list-style-type: none"> <li>Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.</li> <li>Kishimoto TK, et al. 1990. <i>Proc. Natl. Acad. Sci. USA</i> 87:2244. (WB, Block)</li> <li>Jutila M, et al. 2002. <i>J. Immunol.</i> 169:1768. (WB)</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

4. Tamassia N, *et al.* 2008. *J. Immunol.* 181:6563. (FC) [PubMed](#)
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](#)

#### Product Citations

1. Dettling S, *et al.* 2018. *Clin Cancer Res.* 24(12). [PubMed](#)
2. Hunter S, *et al.* 2018. *J Hepatol.* 69:654. [PubMed](#)
3. Amarnath S, *et al.* 2010. *PLoS One.* 5:e1000302. [PubMed](#)
4. Ruck T, *et al.* 2015. *Math Med Biol.* 10.1093/imammb/dqv038. [PubMed](#)
5. Liu L, *et al.* 2016. *Nat Biotechnol.* 10.1038/nbt.3461. [PubMed](#)
6. Björklund &, *et al.* 2016. *Nat Immunol.* 17:451-460. [PubMed](#)
7. Wei&Bszig;müller S, *et al.* 2016. *PLoS One.* 11: 0149093. [PubMed](#)
8. Engelmann C, *et al.* 2016. *Sci Rep.* 6:37926. [PubMed](#)
9. Koh WH, *et al.* 2020. *STAR Protoc.* 1:100203. [PubMed](#)
10. Caduff N, *et al.* 2021. *Cell Reports.* 35(5):109056. [PubMed](#)

#### RRID

AB\_493583 (BioLegend Cat. No. 304813)  
 AB\_493582 (BioLegend Cat. No. 304814)

## Antigen Details

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<b>Structure</b>	Selectin, single chain glycoprotein, 74-95 kD
<b>Distribution</b>	Majority of B cells, naïve T cells, subset of memory T and NK cells, monocytes, granulocytes, thymocytes
<b>Function</b>	Leukocyte homing, leukocyte tethering, rolling
<b>Ligand/Receptor</b>	CD34, GlyCAM, MAdCAM-1
<b>Cell Type</b>	B cells, Granulocytes, Monocytes, Neutrophils, NK cells, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Kishimoto T, <i>et al.</i> 1990. <i>P. Natl. Acad. Sci. USA</i> 87:2244.</li> <li>2. Kishimoto T, <i>et al.</i> 1991. <i>Blood</i> 78:805.</li> </ol>

#### Gene ID

[6402](#)

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

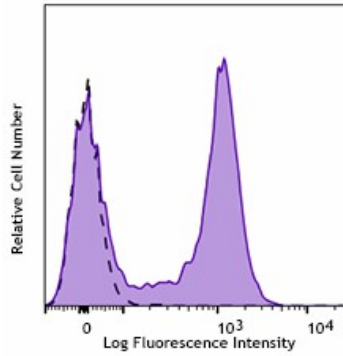
## Other Formats

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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

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Human peripheral blood lymphocytes were stained with CD62L (clone DREG-56) APC/Cyanine7 (filled histogram) or Mouse IgG1, ? APC/Cyanine7 isotype control (open histogram).

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