

Brilliant Violet 510™ anti-human CD62L

Catalog # / Size: 2124220 / 100 tests
2124215 / 25 tests

Clone: DREG-56

Isotype: Mouse IgG1, κ

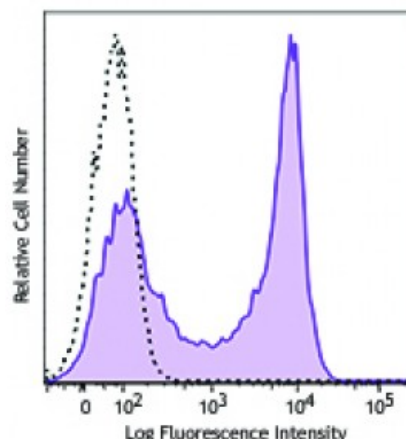
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: V S056

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD62L (clone DREG-56) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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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 LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 304812).

Application References:

- 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)
- Juttila M, *et al.* 2002. *J. Immunol.* 169:1768. (WB)
- 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](#)
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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, glycamin-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.

Antigen 1. Kishimoto T, *et al.* 1990. *P. Natl. Acad. Sci. USA* 87:2244.
References: 2. Kishimoto T, *et al.* 1991. *Blood* 78:805.