

Product Data Sheet

Alexa Fluor® 700 anti-human CD62L

Catalog # / Size: 304820 / 100 µg

Clone: DREG-56

Isotype: Mouse IgG1, κ

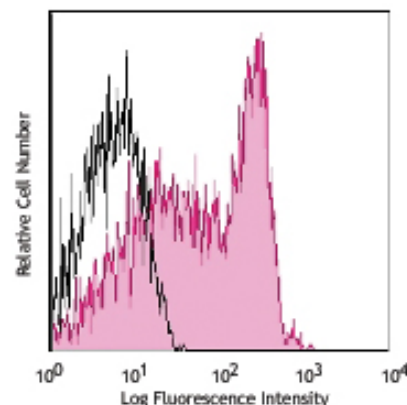
Workshop Number: V S056

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Cattle (Bovine, Cow)

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml



Human peripheral blood lymphocytes stained with DREG-56 Alexa Fluor® 700

Applications:

Applications: FC - Quality tested

Recommended Usage: This reagent is developed for immunofluorescent staining for flow cytometric analysis, the suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633nm / 635nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting^{2,3}, and *in vitro* blocking of lymphocytes binding to high endothelial venules (HEV)². The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm 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 T, et al. 1990. P. Natl. Acad. Sci. USA 87:2244. (WB, Block)
- Jutila M, et al. 2002. J. Immunol. 169:1768. (WB)
- Tamassia N, et al. 2008. J. Immunol. 181:6563. (FC) PubMed
- Kmiecik M, et al. 2009. J. Transl. Med. 7:89. (FC) PubMed
- Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed
- Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed
- Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
- Koenig JM, et al. 1996. Pediatr. Res. 39:616. (WB)
- Shi C, et al. 2011. J. Immunol. 187:5293. PubMed

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 naive 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 References:

- Kishimoto T, et al. 1990. P. Natl. Acad. Sci. USA 87:2244.
- Kishimoto T, et al. 1991. Blood 78:805.

Related Products:

Cell Staining Buffer

RBC Lysis Buffer (10X)

Alexa Fluor® 700 Mouse IgG1, κ Isotype Ctrl

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

FC, ICC, ICFC

FC, ICFC

FC, ICFC

FC, ICC, ICFC



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