SONY

Product Data Sheet

PE/Cyanine5 anti-mouse CD62L

Catalog # / Size: 1122050 / 100 µg

Clone: MEL-14

Isotype: Rat IgG2a, κ

Immunogen: C3H/eb mouse B lymphoma 38C-13

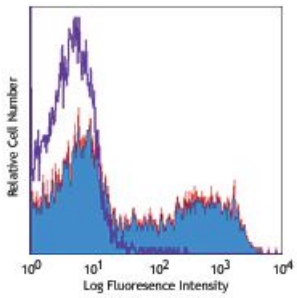
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



C57BL/6 mouse bone marrow cells were stained with CD62L (clone MEL-14) PE/Cy5 (filled histogram) or rat IgG2a PE/Cy5 isotype control (open histogram) (gated on total cell population).

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 ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[1-3], complement-dependent cytotoxicity4, *in vivo* and *in vitro* blocking of adhesion[1-3,5], and immunohistochemical staining of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections[6]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104416).

Application References:

1. Gallatin WM, *et al.* 1983. *Nature* 304:30. (IP, Block)
2. Siegelman MH, *et al.* 1990. *Cell* 61:611. (IP, Block)
3. Lewinsohn DM, *et al.* 1987. *J. Immunol.* 138:4313. (IP, Block)
4. Iwabuchi K, *et al.* 1991. *Immunobiology* 182:161. (CMCD)
5. Pizcueta P, *et al.* 1994. *Am. J. Pathol.* 145:461.
6. Reichert RA, *et al.* 1986. *J. Immunol.* 136:3535. (IHC, FC)
7. Olver S, *et al.* 2006. *Cancer Res.* 66:571.
8. Fukushima A, *et al.* 2006. *Invest. Ophthalmol. Vis. Sci.* 47:657. PubMed
9. Benson MJ, *et al.* 2007. *J. Exp. Med.* doi:10.1084/jem.20070719. (FC) PubMed
10. Chappaz S, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074245. (FC) PubMed
11. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181.
12. Shigeta A, et al. 2008. *Blood* 112:4915 (FC) PubMed
13. de Vries VC, *et al.* 2009. *Am. J. Transplant.* 9:2270 PubMed

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: CD62L is a 74-95 kD glycoprotein also known as L-selectin, LECAM-1, Ly-22, LAM-1, and MEL-14. It is a member of the selectin family and is expressed on the majority of B and naï ve T cells, a subset of memory T cells, monocytes, granulocytes, most thymocytes, and a subset of NK cells. CD62L is important in lymphocyte homing to high endothelial venules (HEV) in peripheral lymph nodes and leukocyte rolling on activated endothelium. CD62L also contributes to neutrophil emigration at inflammatory sites. CD62L is rapidly shed from lymphocytes and neutrophils upon cellular activation and the expression levels of CD62L (in conjunction with other markers) have been used to distinguish naï ve, effector, and memory T cells. CD62L has been reported to interact with CD34, GlyCAM-1, and MAdCAM-1.

Antigen References:

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Kishimoto TK, *et al.* 1990. *P. Natl. Acad. Sci. USA* 87:2244.
3. Tedder TF, *et al.* 1995. *J. Exp. Med.* 181:2259.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.