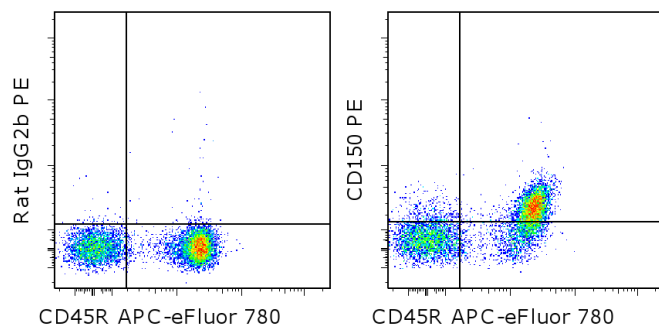


Anti-Mouse CD150 PE

Catalog Number: 12-1502

Also known as: SLAM, Signaling lymphocyte activation molecule

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC-eFluor® 780 (cat. 47-0452) and 0.06 ug of Rat IgG2b K Isotype Control PE (cat. 12-4031) (left) or 0.06 ug of Anti-Mouse CD150 PE (right). Total viable cells were used for analysis.

Product Information



Contents: Anti-Mouse CD150 PE

Catalog Number: 12-1502

Clone: mShad150

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Description

The mShad150 monoclonal antibody reacts with mouse CD150, an ~70 kDa transmembrane glycoprotein also known as Signaling Lymphocyte Activation Molecule (SLAM). CD150 is expressed by T cells, in particular Th1, and B cells; this expression is rapidly upregulated upon activation. Immature thymocytes and dendritic cells also express this antigen. Signaling through SLAM in T cells induces proliferation and augmentation of the interferon-gamma response. Furthermore, SLAM is thought to play a role in adhesion between the T cell and antigen-presenting cell. The mShad150 antibody has been reported to also stain the CD150+CD244-CD48-CD41- population of pluripotent hematopoietic stem cells.

Applications Reported

This mShad150 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This mShad150 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Ku CJ, Hosoya T, Maillard I, Engel JD. GATA-3 regulates hematopoietic stem cell maintenance and cell-cycle entry. *Blood*. 2012 Mar 8;119(10):2242-51 (mShad, FC, PubMed)

Schwartzberg PL, Mueller KL, Qi H, Cannons JL. SLAM receptors and SAP influence lymphocyte interactions, development and function. *Nat Rev Immunol*. 2009 Jan;9(1):39-46.

Wilson A, Laurenti E, Oser G, van der Wath RC, Blanco-Bose W, Jaworski M, Offner S, Dunant CF, Eshkind L, Bockamp E, Lió P, Macdonald HR, Trumpp A. Hematopoietic stem cells reversibly switch from dormancy to self-renewal during homeostasis and repair. *Cell*. 2008 Dec 12;135(6):1118-29.

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Kiel MJ, Yilmaz OH, Iwashita T, Yilmaz OH, Terhorst C, Morrison SJ. SLAM family receptors distinguish hematopoietic stem and progenitor cells and reveal endothelial niches for stem cells. *Cell*. 2005 Jul 1;121(7):1109-21.

Related Products

12-4031 Rat IgG2b K Isotype Control PE

47-0452 Anti-Human/Mouse CD45R (B220) APC-eFluor® 780 (RA3-6B2)

56-5981 Anti-Mouse Ly-6A/E (Sca-1) Alexa Fluor® 700 (D7)

88-7772 Mouse Hematopoietic Lineage eFluor® 450 Cocktail (17A2, RA3-6B2, M1/70, TER-119, RB6-8C5)