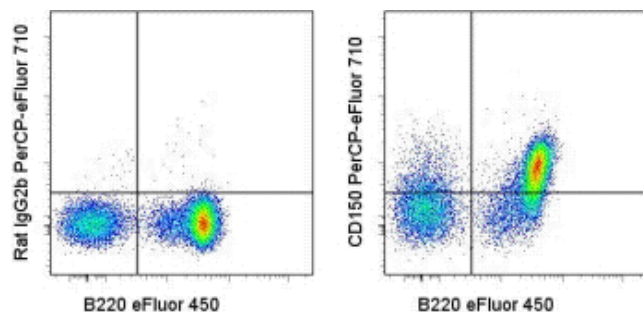


Anti-Mouse CD150 PerCP-eFluor® 710

Catalog Number: 46-1502

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) eFluor® 450 (cat. 48-0452) and 0.06 ug of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or 0.06 ug of Anti-Mouse CD150 PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD150 PerCP-eFluor® 710


REF **Catalog Number:** 46-1502

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.

LOT **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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click [here](#) or contact eBioscience Technical Support for more information on eFluor® Organic Dyes including PerCP-eFluor® 710.

References

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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.

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

22-7778 Human Hematopoietic Lineage FITC Cocktail

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

48-0452 Anti-Human/Mouse CD45R (B220) eFluor® 450 (RA3-6B2)

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