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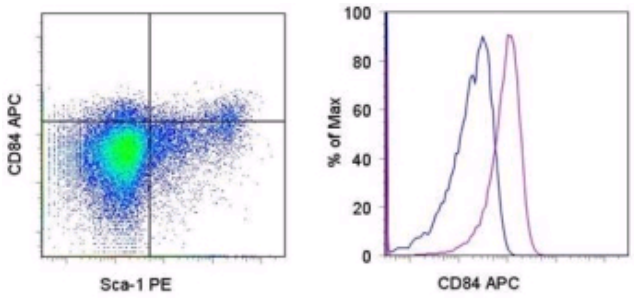
Anti-Mouse CD84 APC

Catalog Number: 17-0841
Also Known As:SLAMF5
RUO: For Research Use Only



Left: Lineage^{lo} C57BL/6 bone marrow cells were stained with Anti-Mouse Ly-6A/E (Sca-1) PE (cat. 12-5981) and 0.5 µg of Anti-Mouse CD84 APC.
Right: Staining of mouse splenocytes with 0.5 µg of Armenian Hamster IgG Isotype Control APC (cat. 17-4888) (blue histogram) or 0.5 µg of Anti-Mouse CD84 APC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD84 APC
REF Catalog Number: 17-0841
Clone: mCD84.7
Concentration: 0.2 mg/mL
Host/Isotype: Armenian Hamster IgG1

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

This mCD84.7 monoclonal antibody reacts with mouse CD84, a 64- to 82-kDa member of the SLAM family of Ig receptors. CD84 is a highly glycosylated single transmembrane receptor. Expressed in B and T cells, monocytes, platelets, and thymocytes, this receptor was recently found to also be expressed on Sca-1^{+}c-kit^{+}Lin^{-} mouse bone marrow hematopoietic stem cells. CD84 has been reported to bind itself homophilically to promote IFNγ secretion and act as a costimulatory molecule. Once phosphorylated, the cytoplasmic tail binds signaling lymphocyte activation molecule-associated protein (SAP).

Applications Reported

This mCD84.7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This mCD84.7 antibody has been tested by flow cytometric analysis of mouse splenocytes and bone marrow. This can be used at less than or equal to 1 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Sintes J, Romero X, Marin P, Terhorst C, Engel P. Differential expression of CD150 (SLAM) family receptors by human hematopoietic stem and progenitor cells. Exp Hematol. 2008 Sep;36(9):1199-204.

Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P. CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. J Immunol. 2005 Jun 1;174(11):7033-42. (mCD84.7, FC, Pubmed)

Martin M, Romero X, de la Fuente MA, Tovar V, Zapater N, Esplugues E, Pizcueta P, Bosch J, Engel P. CD84 functions as a homophilic adhesion molecule and enhances IFN-gamma secretion: adhesion is mediated by Ig-like domain 1. J Immunol. 2001 Oct 1;167(7):3668-76.

Related Products

12-5981 Anti-Mouse Ly-6A/E (Sca-1) PE (D7)
17-4888 Armenian Hamster IgG Isotype Control APC (eBio299Arm)
46-1171 Anti-Mouse CD117 (c-Kit) PerCP-eFluor® 710 (PE-Cy5.5 replacement) (2B8)
88-7772 Mouse Hematopoietic Lineage eFluor® 450 Cocktail (17A2, RA3-6B2, M1/70, TER-119, RB6-8C5)

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