
Anti-Mouse CD150 Functional Grade Purified

Catalog Number: 16-1501

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

Product Information

Contents: Anti-Mouse CD150 Functional Grade Purified
Catalog Number: 16-1501
Clone: 9D1
Concentration: 1 mg/mL
Host/Isotype: Rat IgG1
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.



Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The 9D1 monoclonal antibody reacts with mouse CD150, an ~70 kDa transmembrane glycoprotein also known as Signaling Lymphocyte Activation Molecule (SLAM). CD150 is expressed by T (especially TH1) and B cells and its expression is rapidly upregulated on these cells 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. 9D1 is reported to be an activating antibody.

Mouse hematopoietic stem cells (HSC) can be identified using SLAM family markers, such as CD150+CD244-CD48-. For this application we recommend the use of antibody clone mShad150 (cat. 12-1502).

Applications Reported

This 9D1 antibody has been reported for use in flow cytometric analysis. 9D1 has also been reported to augment T-cell activation including inducing their proliferation and production of IFN-γ.

Applications Tested

This 9D1 antibody has been tested by flow cytometric analysis of mouse thymic and splenic cell suspensions. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Howie D, Okamoto S, Rietdijk S, Clarke K, Wang N, Gullo C, Bruggeman JP, Manning S, Coyle AJ, Greenfield E, Kuchroo V, Terhorst C. 2002. The role of SAP in murine CD150 (SLAM)-mediated T-cell proliferation and interferon gamma production. Blood. 100(8): 2899-907. (9D1, FC, FA, PubMed)

Related Products

12-4317 Streptavidin PE
13-4813 Anti-Rat IgG Biotin (Polyclonal)
14-4301 Rat IgG1 K Isotype Control Purified
16-4301 Rat IgG1 K Isotype Control Functional Grade Purified

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