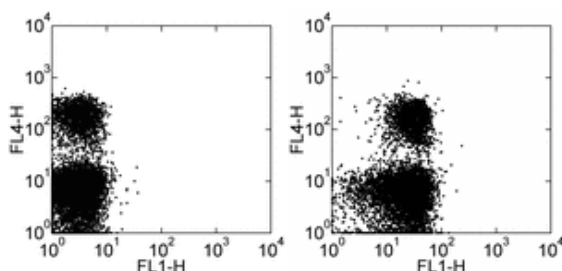


Anti-Mouse CD100 (SEMA4D) FITC

Catalog Number: 11-1001

Also Known As: Semaphorin 4D

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with Anti-Mouse CD3e APC (cat. 17-0031) and 0.25 µg of Rat IgG2a κ Isotype Control FITC (cat. 11-4321) (left) or 0.25 µg of Anti-Mouse CD100 (SEMA4D) FITC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD100 (SEMA4D) FITC


REF Catalog Number: 11-1001

Clone: BMA12 (BMA-12)

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a

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

 Caution, contains Azide

Description

The BMA12 monoclonal antibody reacts with mouse CD100, also known as Sema4D. Sema4D/CD100 is a 150kDa transmembrane protein expressed constitutively on T cells and is involved in the activation of B cells through its interaction with CD72. Interaction of these two proteins diminishes the negative signaling normally effected by CD72. CD100 is already expressed strongly on resting T cells and somewhat weakly on B cells, but activation upregulates expression on both cell types. Antigen expression has been reported in Spleen, thymus and lymph nodes.

Applications Reported

The BMA12 (BMA-12) antibody has been reported for use in flow cytometric analysis.

Applications Tested

The BMA12 (BMA-12) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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

Wang X, Kumanogoh A, Watanabe C, Shi W, Yoshida K, Kikutani H. 2001. Functional soluble CD100/Sema4D released from activated lymphocytes: possible role in normal and pathologic immune responses. *Blood*. 97(11):3498-504.

Related Products

11-4321 Rat IgG2a K Isotype Control FITC

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