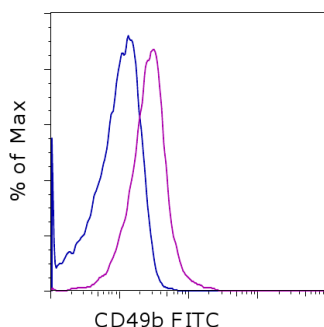


Anti-Mouse CD49d (Integrin alpha 4) FITC

Catalog Number: 11-0492

Also known as: Integrin α 4, VLA4, ITGA4

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



Staining of BALB/c splenocytes with 0.25 μ g of Rat IgG2b K Isotype Control FITC (cat. 11-4031) (blue histogram) or 0.25 μ g of Anti-Mouse CD49d (Integrin alpha 4) FITC (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD49d (Integrin alpha 4) FITC



Catalog Number: 11-0492

Clone: R1-2

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2b, kappa



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

Contains sodium azide

Description

The R1-2 monoclonal antibody reacts with mouse CD49d, the 150 kDa integrin α 4 subunit. The complex of CD49d non-covalently associated with integrin β 1 (CD29), also known as VLA-4, is a receptor for fibronectin and VCAM-1 (CD106). This complex is expressed by thymocytes, peripheral lymphocytes, monocytes and eosinophils. CD49d also associates with integrin β 7 and binds to the Mucosal vascular Addressin (MAdCAM-1).

Applications Reported

The R1-2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The R1-2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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

Holzmann B, McIntyre BW, Weissman IL. Identification of a murine Peyer's patch--specific lymphocyte homing receptor as an integrin molecule with an α chain homologous to human VLA-4 α . *Cell*. 1989 Jan 13;56(1):37-4.

Neuhaus H, Hu MC, Hemler ME, Takada Y, Holzmann B, Weissman IL. Cloning and expression of cDNAs for the α subunit of the murine lymphocyte-Peyer's patch adhesion molecule. *J Cell Biol*. 1991 Nov;115(4):1149-58.

Related Products

00-4222 Flow Cytometry Staining Buffer

11-4031 Rat IgG2b K Isotype Control FITC

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