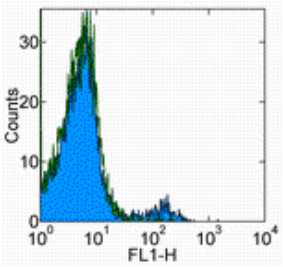
full spectrum cell analysis®
eBioscience®

Anti-Mouse CD49b (Integrin alpha 2) Purified

Catalog Number: 14-0491
Also Known As: Integrin a2, VLA2, ITGA2, DX5
RUO: For Research Use Only



Staining of BALB/c splenocytes with 0.25 ug of Armenian Hamster IgG Isotype Control Purified (cat. 14-4888) (open histogram) or 0.25 ug of Anti-Mouse CD49b Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC (cat. 11-4111). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) Purified
REF **Catalog Number:** 14-0491
Clone: HMa2
Concentration: 0.5 mg/ml
Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The HMα2 monoclonal antibody reacts with mouse CD49b, the 150 kDa integrin α_2 subunit. The complex of CD49b non-covalently associated with integrin β_1 (CD29), also known as VLA-2, is a receptor for collagen and laminin. This complex is expressed by some $CD4^+$ T cells, IEL, NK cells, platelets and epithelial cells.

Applications Reported

The HMα2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue (IHC-F). It has also been reported for use in *in vitro* functional assays (Please use Functional Grade purified HMa2, cat. 16-0491, in functional assays.)

Applications Tested

The HMα2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. 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 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

Miyake, S., T. Sakurai, et al. (1994). "Identification of collagen and laminin receptor integrins on murine T lymphocytes." Eur J Immunol 24(9): 2000-5.
Noto, K., K. Kato, et al. (1995). "Identification and functional characterization of mouse CD29 with a mAb." Int Immunol 7(5): 835-42.

Related Products

11-4111 Anti-Armenian Hamster IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)
14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)
17-4317 Streptavidin APC

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com