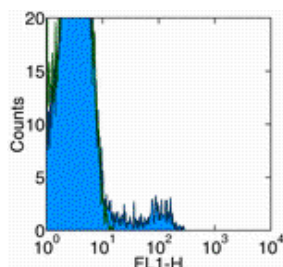


Anti-Mouse CD49b (Integrin alpha 2) Functional Grade Purified

Catalog Number: 16-0491

Also Known As: Integrin α_2 , VLA2, ITGA2, DX5

RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD49b (Integrin α_2) FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD49b (Integrin alpha 2) Functional Grade Purified

Formulation: aqueous buffer, no sodium azide

REF **Catalog Number:** 16-0491

Clone: HM α 2

 **Temperature Limitation:** Store at 2-8°C.

Concentration: 1 mg/ml

LOT **Batch Code:** Refer to Vial

Host/Isotype: Armenian Hamster IgG

 **Use By:** Refer to Vial

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Description

The HM α 2 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 HM α 2 antibody has been reported for use in flow cytometric analysis. It has also been reported for use in *in vitro* functional assays

Applications Tested

The HM α 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 10⁵ to 10⁸ 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)

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

17-4317 Streptavidin APC

