

Product Information

Contents: Affinity Purified anti-mouse CD49b (Integrin α_2)

Catalog Number: 14-0491

Sizes: 50 ug, 100 ug, 500 ug

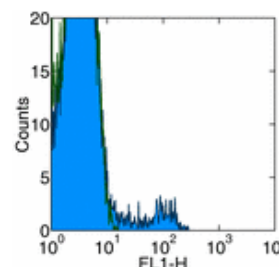
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: HMa2

Isotype: Armenian Hamster IgG



Surface staining of mouse splenocytes with anti-mouse CD49b (HMa2) FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0491	FITC anti-mouse CD49b (Integrin alpha 2)	488	518	FC
13-0491	Biotin anti-mouse CD49b (Integrin alpha 2)	N/A	N/A	FC
14-0491	Affinity Purified anti-mouse CD49b (Integrin alpha 2)	N/A	N/A	FA FC IHC IP
16-0491	Functional Grade* Purified anti-mouse CD49b (Integrin alpha 2)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The HMa2 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.

Usage

For research use only, not for diagnostic or therapeutic use. The HMa2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. 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 HMa2 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 million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0491	FITC anti-mouse CD49b (Integrin alpha 2) (clone HMa2)
Cat. 13-0491	Biotin anti-mouse CD49b (Integrin alpha 2) (clone HMa2)
Cat. 16-0491	Functional Grade Purified anti-mouse CD49b (Integrin alpha 2) (clone HMa2)
Cat. 11-4111	FITC Anti-Armenian Hamster IgG
Cat. 13-4113	Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)
Cat. 17-4317	Streptavidin Allophycocyanin (SA-APC)
Cat. 16-4444	Functional Grade Purified Armenian Hamster IgG Isotype Control (clone n/a)

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.

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