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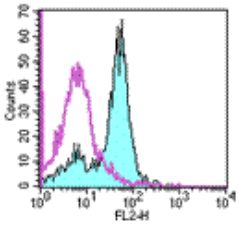
Anti-Mouse/Rat CD61 (Integrin beta 3) Purified

Catalog Number: 14-0611
Also Known As:Integrin b3, ITGB3
RUO: For Research Use Only



Staining of C57Bl/6 bone marrow cells with 0.25 µg Armenian Hamster IgG Isotype Control Purified (cat.14-4888) (open histogram) or 0.25 µg of Anti-Mouse/Rat CD61 (Integrin β3) Purified (filled histogram) followed byAnti-Armenian Hamster IgG Biotin (cat.13-4113) and Streptavidin PE (cat.12-4317). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Mouse/Rat CD61 (Integrin beta 3) Purified
REF Catalog Number: 14-0611
Clone: 2C9.G3
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 2C9.G3 (HMb3-1) monoclonal antibody reacts with mouse and rat CD61, also known as the integrin β_3. CD61 is expressed by activated T cells, granulocytes, and platelet. CD61 associates non-covalently with two integrin α subunits; α_V (CD51) to form Vitronectin Receptor and α_{IIb} (CD41) to form gpIIb/IIIa. These heterodimeric complexes are responsible for adhesion to extracellular matrix components including fibrinogen, fibronectin, fibronectin, vitronectin, thrombospondin and von Willebrand factor.

Applications Reported

The 2C9.G3 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. 2C9.G3 has also been reported in blocking of ligand binding and some adhesive processes. (Please use Functional Grade purified 2C9.G3, cat. 16-0611, in functional assays.)

Applications Tested

The 2C9.G3 antibody has been tested by flow cytometric analysis of mouse splenocyte and bone marrow cell 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

Yasuda M, Hasunuma Y, Adachi H, Sekine C, Sakanishi T, Hashimoto H, Ra C, Yagita H, Okumura K. 1995. Expression and function of fibronectin binding integrins on rat mast cells. Int Immunol. 7:251-8.

Nohara K, Pan X, et al. 2005. Constitutively active aryl hydrocarbon receptor expressed specifically in T-lineage cells causes thymus involution and suppresses the immunization-induced increase in splenocytes. J Immunol. 174(5):2770-7. (FC, PubMed)

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

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