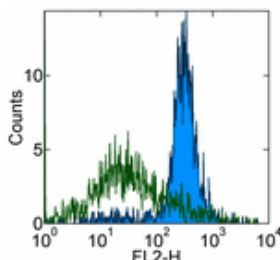


Anti-Mouse CD51 (Integrin alpha V) Purified

Catalog Number: 14-0512

Also Known As: Integrin α V, ITGAV, Vitronectin receptor

RUO: For Research Use Only



Staining of C57Bl/6 bone marrow cells with 1 μ g of Rat IgG1 Isotype Control Purified (cat. 14-4301) (open histogram) or 1 μ g of Anti-Mouse CD51 (Integrin α V) Purified (filled histogram) followed by Anti-Rat IgG PE (cat. 12-4822). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Mouse CD51 (Integrin alpha V) Purified


REF Catalog Number: 14-0512

Clone: RMV-7

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG1, κ

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 RMV-7 monoclonal antibody reacts with the mouse CD51 molecule, the integrin alpha v chain. This approximately 120 kDa surface molecule non-covalently associates with the β subunits of the integrin family including β_3 (CD61), β_1 (CD29), β_5 and β_6 to form receptors for extracellular matrix components. Heterodimers of CD51/CD61 are expressed by platelets, T cells and granulocytes and mediate adhesion to fibrinogen, fibronectin, vitronectin and thrombospondin.

Applications Reported

The RMV-7 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunoblotting (WB). Soluble RMV-7 blocks adhesion to fibronectin and vitronectin and immobilized RMV-7 induces activation. (Please use Functional Grade purified RMV-7, cat. 16-0512, in functional assays.)

Applications Tested

The RMV-7 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 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

- Tsujimura, K., T. Takahashi, et al. (1998). "Two types of anti-TL (thymus leukemia) CTL clones with distinct target specificities: differences in cytotoxic mechanisms and accessory molecule requirements." *J Immunol* 160(11): 5253-61.
- Takahashi, K., T. Nakamura, et al. (1991). "Antigen-independent T cell activation mediated by a very late activation antigen-like extracellular matrix receptor." *Eur J Immunol* 21(6): 1559-62.
- Takahashi, K., T. Nakamura, M. Koyanagi, K. Kato, Y. Hashimoto, H. Yagita, and K. Okumura. 1990. A murine very late activation antigen-like extracellular matrix receptor involved in CD2- and lymphocyte function-associated antigen-1-independent killer-target cell interaction. *J. Immunol.* 145:4371-4379

Related Products

- 11-4317 Streptavidin FITC
- 11-4811 Anti-Rat IgG FITC
- 12-4317 Streptavidin PE
- 13-4813 Anti-Rat IgG Biotin (Polyclonal)
- 14-4301 Rat IgG1 K Isotype Control Purified
- 17-4317 Streptavidin APC

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