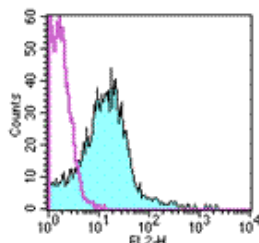


Anti-Mouse CD51 (Integrin alpha V) PE

Catalog Number: 12-0512

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

RUO: For Research Use Only



Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25 µg of Anti-Mouse CD51 (Integrin α V) PE (filled histogram). Total viable cells were used for analysis.

Product Information

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

 Catalog Number: 12-0512

Clone: RMV-7

Concentration: 0.2 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. Do not freeze. Light sensitive material.



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.

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 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

- 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

12-4301 Rat IgG1 K Isotype Control PE

