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Technical Data Sheet

Anti-Mouse/Rat CD29 (Integrin beta 1) PE

Catalog Number :11312-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: HMb1-1

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse, Rat

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Armenian Hamster IgG

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The HMb1-1 monoclonal antibody specifically reacts with mouse/rat CD29, a 130 kDA molecule also known as integrin beta 1, GPIIa, and the VLA-beta chain. It is expressed broadly on endothelial cells, epithelial, leukocytes, and smooth muscle. CD29 forms the VLA 1-6 complexes through the non-covalent interaction with the alpha integrins of CD49 a-f. The HMb1-1 antibody is capable of inhibiting T cell proliferation and blocking cell adhesion.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤1 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Ridger, V. C., Wagner, B. E., Wallace, W. A., Hellewell, P. G. (2001). Differential effects of CD18, CD29, and CD49 integrin subunit inhibition on neutrophil migration in pulmonary inflammation.;The Journal of Immunology,166(5), 3484-3490.

2. Noto, K., Kato, K., Okumura, K., Yagita, H. (1995). Identification and functional characterization of mouse CD29 with a mAb.;International immunology,;7(5), 835-842.

3. Sangaletti, S., Di Carlo, E., Gariboldi, S., Miotti, S., Cappetti, B., Parenza, M., ... Colombo, M. P. (2008). Macrophage-derived SPARC bridges tumor cell-extracellular matrix interactions toward metastasis.;Cancer research,;68(21), 9050-9059.

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