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Technical Data Sheet

Anti-Human CD42b FITC

Catalogue Number : 04511-50

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

Product Information

Clone: HIP1

Format/Conjugate: FITC

Concentration: 5 uL (1 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

Isotype: Mouse IgG1, kappa

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 HIP1 monoclonal antibody specifically binds to human CD42b, a 145kDa transmembrane protein known as the platelet glycoprotein Ib alpha chain (gpIbα). CD42 is expressed on platelets and megakaryocytes and is reported to be involved in platelet adhesion. The HIP1 antibody inhibits collage-induced aggregation and platelet to von Willebrand Factor (vWF) binding.

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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Gohda, F., Uchiumi, H., Handa, H., Matsushima, T., Tsukamoto, N., Morita, K., ... ; Karasawa, M. (2007). Identification of inherited macrothrombocytopenias based on mean platelet volume among patients diagnosed with idiopathic thrombocytopenia.;Thrombosis research,;119(6), 741-746.

2. George, N. P. E., Wei, Q., Shin, P. K., Konstantopoulos, K., ; Ross, J. M. (2006). Staphylococcus aureus adhesion via Spa, ClfA, and SdrCDE to immobilized platelets demonstrates shear-dependent behavior.;Arteriosclerosis, thrombosis, and vascular biology,;26(10), 2394-2400.

3. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.

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