
CD42b (HIP1) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 250966

Unit: 0.1 mg

Description:

The CD42b (HIP1) antibody recognizes a heterodimer glycoprotein (GPIb?) that contains an α chain (CD42b, 145 kDa) and a β chain (CD42c, 22 kDa) linked by a disulfide bond forming a noncovalent complex with CD42a (GPIX) and d. CD42b antigen is expressed on platelets and megakaryocytes. The GPIb/IX complex (CD42a-d) serves as a receptor for von Willebrand Factor (vWF) and thrombin, and mediates adhesion of platelets to subendothelium of damaged vascular walls. The absence of the CD42 complex leads to the Bernard-Soulier Syndrome (BSS). The CD42b (HIP1) antibody inhibits the ristocetin-dependent binding of vWF to platelets, ristocetin-induced platelet agglutination, and partially inhibits collagen-induced aggregation.

Isotype: Mouse IgG1

Applications: B, E, FC, IHC

Species Reactivity: H

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: CD42b; Platelet glycoprotein Ib alpha chain; Glycoprotein Ibalpha; GP-Ib alpha; GPIb-alpha; GPIbA; Antigen CD42b-alpha; Glycocalicin

Accession No.: P07359

Application Notes: Purified antibody is suitable for immunohistochemistry with acetone-fixed frozen sections. The antibody also inhibits the ristocetin-dependent binding of vWF to platelets, ristocetin-induced platelet agglutination, and partially inhibits collagen-induced aggregation. E: 1:500-1:1,000; FC: 1:200-1:1,000; IHC: 1:200-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

Product Citations: [1] Chen Z. et al. 1987. Chinese Science Bulletin. 24: 1902. [2] Knapp W et al. eds. 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. P798, 1078, Oxford University Press, New York.

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