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Monoclonal antibody against human CD42b

Product Nos. ADG5035 and ADG5035L

Description

CD42b (GPIbα) composes together with GPIbβ, GPIX and GPV the GPIb-IX-V receptor complex critical in the process of platelet-rich thrombus formation by tethering the platelet to a thrombogenic surface. CD42b binds to von Willebrand factor (VWF) exposed at a site of vascular injury, as well as to thrombin, coagulation factors XI and XII, high molecular wight kininogen, TSP-1, integrin Mac-1 and P-selectin. The extracellular domain of CD42b by its interactions also contributes to metastasis.

Properties

The monoclonal antibody ADG5035/L (clone HIP1) is a murine monoclonal antibody, subclass IgG_1. The antibody has been purified from by protein-G affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes a glycoprotein, heterodimer (GPIbα) which contains an α chain (CD42b, 145 kDa) and a β chain (CD42c, 22 kDa) linked by a disulfied bond forming a noncovalent complex with CD42a (GPIX) and d. This 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). HIP1 McAv inhibits the ristocetin-dependent binding of vWF to platelets, ristocetin-induced platelets agglutination, and partially inhibits collagen-induced aggregation

Presentation

Vial containing 100 µg /100 µl (ADG5035) or 300 µg/ 300 µl (ADG5035L) of purified antibody in PBS containing 0.09 % sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store at 4 °C. For long-term storage aliquot and store at -20°. It is recommended to avoid freeze-thaw cycles. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry
Immunohistochemistry: (frozen sections)

References

Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).

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