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Monoclonal antibody against human CD42b APC conjugated

Product Nos. ADG5039 and ADG5039L

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 ADG5039/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

Conjugation

The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Presentation

Vial containing 500 µl (ADG5039) or 2 ml (ADG5039L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 4°C. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

References

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

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