

anti-human CD42b

The antibody HIP1 reacts with CD42b (GPIb α), a 135-145 kDa membrane glycoprotein expressed on platelets and megakaryocytes. CD42b and CD42c (GPIb β) are composed in a disulfide linked heterodimer (CD42b/c; 160 kDa); CD42b/c forms a noncovalent complex with CD42a and CD42d. The antibody inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and ristocetin-induced platelet agglutination.

CD42b (GPIb α) composes together with GPIb β , 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 weight kininogen, TSP-1, integrin Mac-1 and P-selectin. The extracellular domain of CD42b by its interactions also contributes to metastasis.

Clone:	HIP1
Isotype:	Mouse IgG1
Physical state:	Purified from ascites by protein-G affinity chromatography
Purity:	> 95% (by SDS-PAGE)
Buffer:	PBS with 0.09% sodium azide (pH 7.2)
Storage Instruction:	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Application:	Flow Cytometry, Immunohistochemistry (frozen sections)
Reference:	Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).
Quantity:	0.1 mg
Order N°:	H12175

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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