



11-367-C025

Monoclonal Antibody to CD42b Purified Antibody (0.025 mg)

Clone:	HIP1
Isotype:	Mouse IgG1
Specificity:	The antibody HIP1 reacts with CD42b (GPIb alpha), a 135-145 kDa membrane glycoprotein expressed on platelets and megakaryocytes. CD42b and CD42c (GPIb beta) are composed in a disulfide linked heterodimer (CD42b/c; 160 kDa); CD42b/c forms a noncovalent complex with CD42a and CD42d. HLDA IV; WS Code P 40
Regulatory Status:	RUO
Immunogen:	Peripheral blood mononuclear cells of a patient suffering with CLL.
Species Reactivity:	Human, Non-Human Primates
Application:	Flow Cytometry Immunohistochemistry (frozen sections) Functional Application The antibody HIP1 inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and ristocetin-induced platelet agglutination.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD42b (GPIb alpha) composes together with GPIb beta, 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.

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Antibodies

References:

*Bergmeier W, Piffath CL, Goerge T, Cifuni SM, Ruggeri ZM, Ware J, Wagner DD: The role of platelet adhesion receptor GPIIb/IIIa far exceeds that of its main ligand, von Willebrand factor, in arterial thrombosis. *Proc Natl Acad Sci U S A.* 2006 Nov 7;103(45):16900-5.

*Vanhoorelbeke K, Ulrichts H, Van de Walle G, Fontayne A, Deckmyn H: Inhibition of platelet glycoprotein Ib and its antithrombotic potential. *Curr Pharm Des.* 2007;13(26):2684-97.

*Jain S, Zuka M, Liu J, Russell S, Dent J, Guerrero JA, Forsyth J, Maruszak B, Gartner TK, Felding-Habermann B, Ware J. Platelet glycoprotein Ib alpha supports experimental lung metastasis. *Proc Natl Acad Sci U S A.* 2007 May 22;104(21):9024-8.

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

*Takahashi R, Sekine N, Nakatake T: Influence of monoclonal antiplatelet glycoprotein antibodies on in vitro human megakaryocyte colony formation and proplatelet formation. *Blood.* 1999 Mar 15;93(6):1951-8.

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