

## anti-human CD42b no azide

### Monoclonal Antibody HIP1 to CD42b (Human)

Cat-No: **21270420**

100 µg in 100 µl

**Clone:** HIP1

**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**

**Immunogen:** Peripheral blood mononuclear cells of a patient suffering with CLL.

**Isotype subclass:** Mouse IgG1

**Form:** Purified from ascites by protein-G affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (pH 7.2), sterile

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry

Immunohistochemistry: (frozen sections)

Functional Application: The antibody inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and ristocetin-induced platelet agglutination.

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

**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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