

## Product datasheet for **SM3082P**

### CD42b / GPIbA Mouse Monoclonal Antibody [Clone ID: HIP1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	HIP1
Applications:	FC, FN, IHC
Recommended Dilution:	<b>Flow Cytometry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Functional Application:</b> The antibody inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and ristocetin-induced platelet agglutination.
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peripheral blood mononuclear cells of a patient suffering with CLL
Specificity:	CD42b antibody reacts with CD42b (GPIba), a 135-145 kDa membrane glycoprotein expressed on platelets and megakaryocytes. CD42b and CD42c (GPIbb) are composed in a disulfide linked heterodimer (CD42b/c; 160 kDa); CD42b/c forms a noncovalent complex with CD42a and CD42d.
Formulation:	Phosphate buffered saline (PBS) with 15 mM Sodium Azide as preservative, approx. pH 7.4 State: Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE).
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	glycoprotein Ib platelet alpha subunit
Database Link:	<a href="#">Entrez Gene 2811 Human P07359</a>



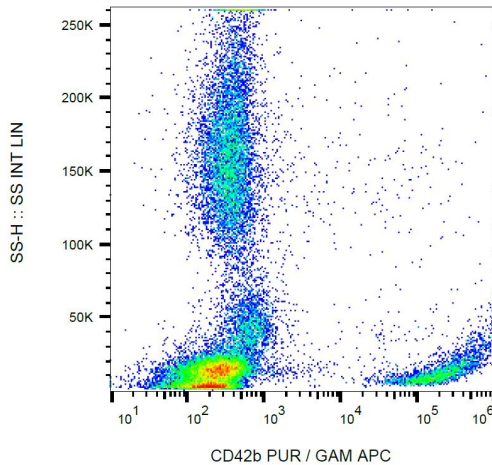
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**Background:**

CD42b (GPIba) composes together with GPIbb, 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.

**Synonyms:**

Platelet glycoprotein Ib alpha chain, Glycoprotein Ibalpha, GP-Ib alpha, GPIb-alpha

**Product images:**

Surface staining of human peripheral blood with anti-CD42b (HIP1) purified / GAM-APC.