

Product datasheet for **SM1104P**

CD42a (GP9) Mouse Monoclonal Antibody [Clone ID: GRP-P]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GRP-P
Applications:	FC, IP
Recommended Dilution:	Flow Cytometry: 1/10-1/100. Immunoprecipitation.
Reactivity:	Canine, Human, Mink
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human red blood cells and platelets. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognizes the platelet GPIX glycoprotein, a 23kDa surface marker expressed by platelets and megakaryocytes. Platelet GPIX is also known as CD42a.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glycoprotein IX platelet
Database Link:	Entrez Gene 2815 Human P14770



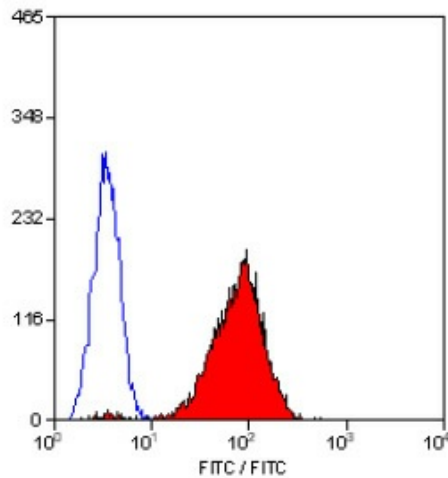
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Background:

CD42a, also known as Glycoprotein 9 (GPIX), composes together with GPIb alpha, GPIb beta 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 Pselectin. Defects in the gene encoding CD42a are a cause of Bernard-Soulier syndrome, also known as giant platelet disease. These patients have unusually large platelets and have a clinical bleeding tendency. CD42a is present on thrombocytes and also on a so far unidentified subpopulation of T lymphocytes.

Synonyms:

Platelet glycoprotein IX, GP-IX, GP9

Product images:

Staining of human peripheral blood platelets with CD42a / GPIX Antibody (Clone GRP-P).