

Datasheet for ABIN1981888
anti-CD42a antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD42a (GP9)
Reactivity:	Human, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD42a antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human acute lymphoblastic leukemia cells
Clone:	GR-P
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody GR-P (also known as GRP-P) recognizes an extracellular epitope of CD42a (glycoprotein 9), a 22 kDa transmembrane protein constitutively expressed on megakaryocytes and platelets.
Cross-Reactivity (Details):	Human, Canine (Dog)
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD42a (GP9)
Alternative Name:	CD42a (GP9 Products)
Background:	Glycoprotein IX platelet,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 P-selectin. 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.,GPIX, GP9
Gene ID:	2815
UniProt:	P14770

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<p>Do not freeze. Avoid prolonged exposure to light.</p> <p>Do not use after expiration date stamped on vial label.</p> <p>Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p>

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

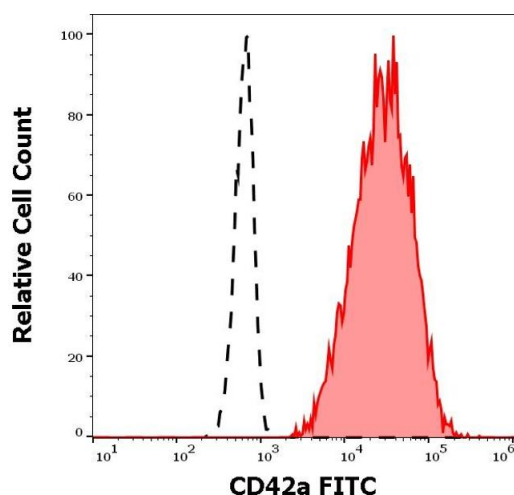
Publications

Product cited in: Din, Aftab, Jubba, Carnegy, Lyall, Sarma, Newby, Flapan: "Effect of moderate walnut consumption on lipid profile, arterial stiffness and platelet activation in humans." in: **European journal of clinical nutrition**, Vol. 65, Issue 2, pp. 234-9, (2011) ([PubMed](#)).

Harding, Din, Sarma, Josephs, Fox, Newby: "Promotion of proinflammatory interactions between platelets and monocytes by unfractionated heparin." in: **Heart (British Cardiac Society)**, Vol. 92, Issue 11, pp. 1635-8, (2006) ([PubMed](#)).

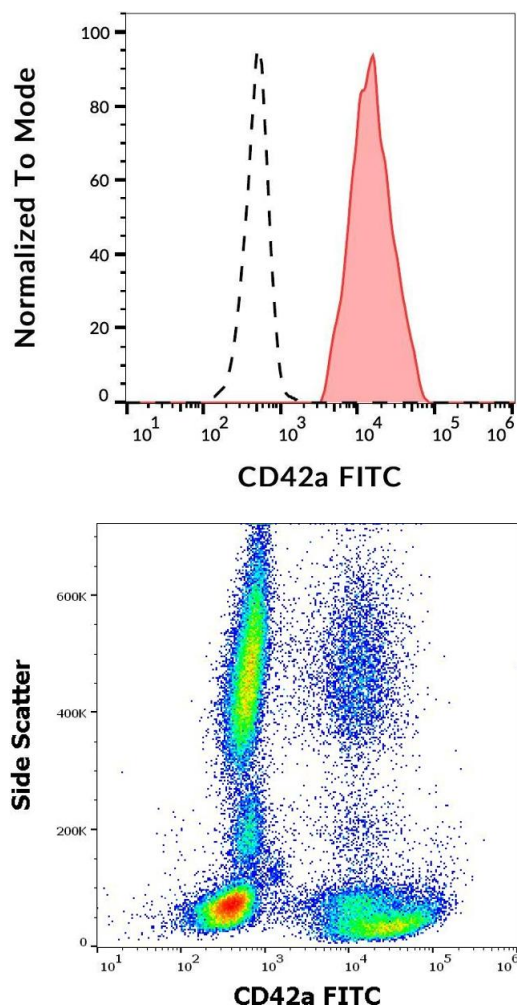
Brown, Clarke, Magowan, Sanderson, Savill: "Constitutive death of platelets leading to scavenger receptor-mediated phagocytosis. A caspase-independent cell clearance program." in: **The Journal of biological chemistry**, Vol. 275, Issue 8, pp. 5987-96, (2000) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Separation of human thrombocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD42a (GR-P) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human platelets with anti-CD42a (GR-P) FITC.

Flow Cytometry

Image 3. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD42a (GR-P) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood).