Datasheet for ABIN1981875

anti-CD42a antibody

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Overview

Quantity:	0.1 mg
Target:	CD42a (GP9)
Reactivity:	Human, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD42a antibody is un-conjugated
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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 wight 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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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:	Do not freeze. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

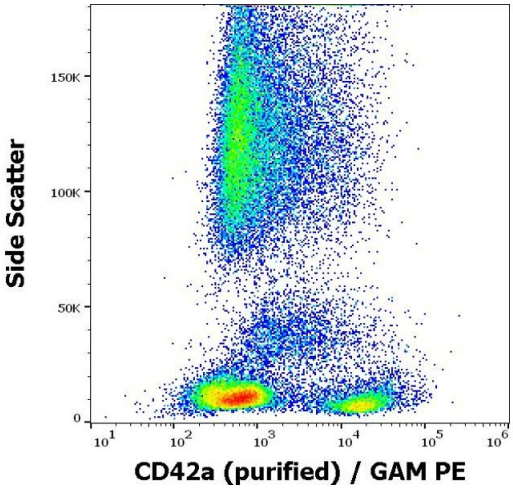
Product cited in:	Din, Aftab, Jubb, Carnegy, Lyall, Sarma, Newby, Flapan: "Effect of moderate walnut consumption on lipid profile, arterial stiffness and platelet activation in humans." in: **European journal of clinical nutrition**, Vol. 65, Issue 2, pp. 234-9, (2011) (PubMed).

Publications

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).

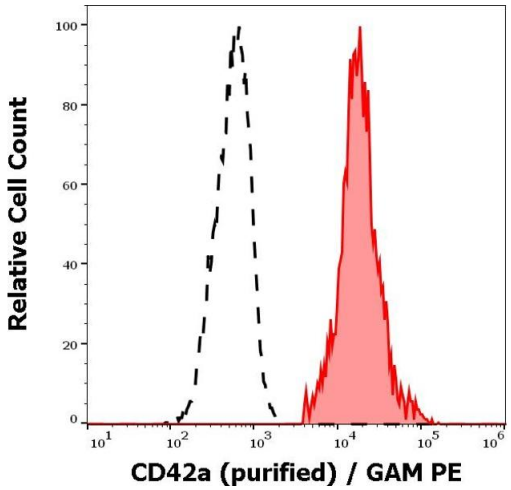
Brown, Clarke, Magowan, Sanderson, Savill: "Constitutive death of platelets leading to scavenger receptor-mediated phagocytosis. A caspase-independent cell clearance program." in: **The Journal of biological chemistry**, Vol. 275, Issue 8, pp. 5987-96, (2000) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD42a (GR-P) purified antibody (concentration in sample 1 µg/mL) GAM PE.



Flow Cytometry

Image 2. Separation of human thrombocytes (red-filled) from CD42a negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD42a (GR-P) purified antibody (concentration in sample 1 µg/mL) GAM PE.