

Datasheet for ABIN2752000

**anti-CD42b antibody**[Go to Product page](#)

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## Overview

Quantity:	0.1 mg
Target:	CD42b (GP1BA)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD42b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Human platelets
Clone:	AK2
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody AK2 recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

Target:	CD42b (GP1BA)
Alternative Name:	CD42b ( <a href="#">GP1BA Products</a> )
Background:	Glycoprotein Ib platelet subunit alpha,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.,BSS, GP1B, VWDP, CD42B, GPIbA, BDPLT1, BDPLT3, DBPLT3
Gene ID:	2811
UniProt:	<a href="#">P07359</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

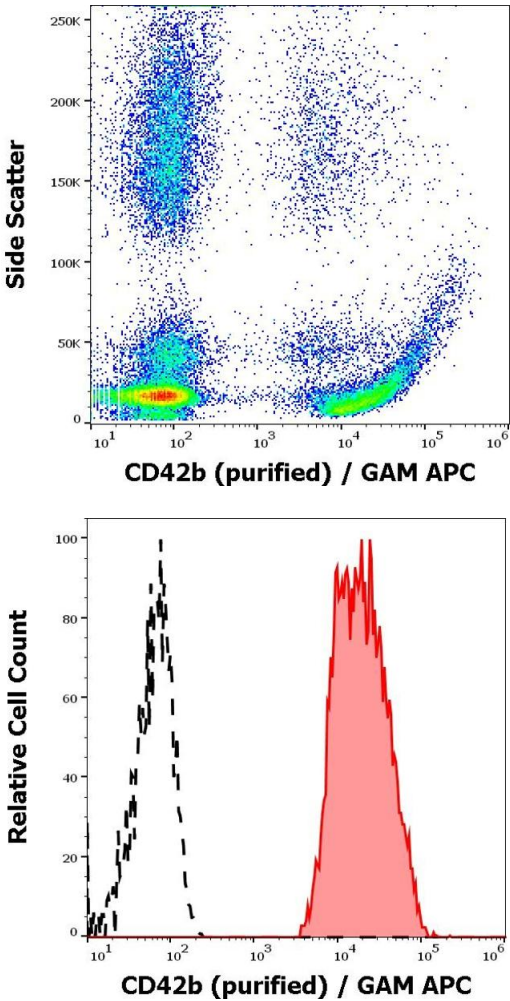
## Handling

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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

Product cited in:	Welsh, Colace, Muthard, Stalker, Brass, Diamond: "Platelet-targeting sensor reveals thrombin gradients within blood clots forming in microfluidic assays and in mouse." in: <b>Journal of thrombosis and haemostasis : JTH</b> , Vol. 10, Issue 11, pp. 2344-53, (2014) ( <a href="#">PubMed</a> ).
	Vettore, Scandellari, Moro, Lombardi, Scapin, Randi, Fabris et al.: "Novel point mutation in a

leucine-rich repeat of the GPIIb/IIIa chain of the platelet von Willebrand factor receptor, GPIIb/IX/V, resulting in an inherited dominant form of Bernard-Soulier syndrome ..." in: **Haematologica**, Vol. 93, Issue 11, pp. 1743-7, (2008) ([PubMed](#)).



Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD42b (AK2) purified antibody (concentration in sample 4 µg/mL) GAM APC.

Flow Cytometry

**Image 2.** Separation of human thrombocytes (red-filled) from CD42b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD42b (AK2) purified antibody (concentration in sample 4 µg/mL) GAM APC.