

Datasheet for ABIN2749191

anti-Integrin Alpha2b antibody**2** Images**4** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Integrin Alpha2b (CD41)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Integrin Alpha2b antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Functional Studies (Func)

Product Details

Immunogen:	Murine platelets
Clone:	MWReg30
Isotype:	IgG1 kappa
Specificity:	The rat monoclonal antibody MWReg30 recognizes an extracellular epitope of CD41 (GPIIb), a transmembrane glycoprotein (integrin family) composed of two chains GPIIb alpha (heavy chain, 120 kDa) and GPIIb beta (light chain, 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes.
Cross-Reactivity (Details):	Mouse
Purification:	Purified by protein-G affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Product Details

Endotoxin Level: Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

Target Details

Target:	Integrin Alpha2b (CD41)
Alternative Name:	CD41 (CD41 Products)
Background:	Integrin subunit alpha 2b,CD41 (platelet glycoprotein IIb) is composed of two subunits (120 kDa a, alpha and 23 kDa b, beta) that interact with CD61 in the presence of calcium to form a functional adhesive protein receptor. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation.,Platelet GPIIb, Integrin alpha-IIb, GPalpha IIb, GPIIb
Gene ID:	16399
UniProt:	Q9QUM0
Pathways:	Integrin Complex

Application Details

Application Notes:	Functional application: Platelet depletion. 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
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in: Ramsey, Zhang, Brown, Steensma, Lin, Wu: "Stress-induced hematopoietic failure in the absence of immediate early response gene X-1 (IEX-1, IER3)." in: **Haematologica**, Vol. 99, Issue

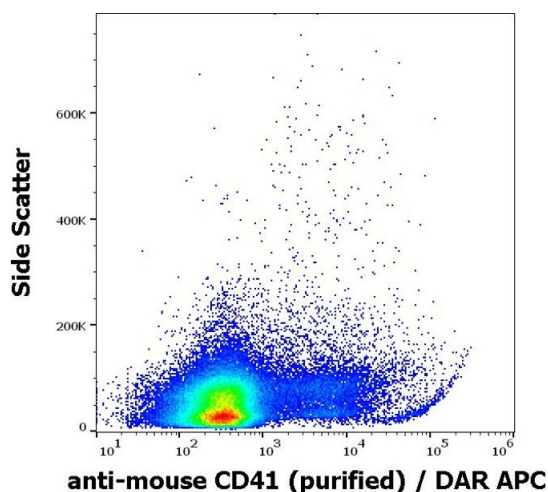
2, pp. 282-91, (2014) ([PubMed](#)).

Brancaleone, Gobbetti, Cenac, le Faouder, Colom, Flower, Vergnolle, Nourshargh, Perretti: "A vasculo-protective circuit centered on lipoxin A4 and aspirin-triggered 15-epi-lipoxin A4 operative in murine microcirculation." in: **Blood**, Vol. 122, Issue 4, pp. 608-17, (2013) ([PubMed](#)).

Boisset, Clapes, Van Der Linden, Dzierzak, Robin: "Integrin α IIb (CD41) plays a role in the maintenance of hematopoietic stem cell activity in the mouse embryonic aorta." in: **Biology open**, Vol. 2, Issue 5, pp. 525-32, (2013) ([PubMed](#)).

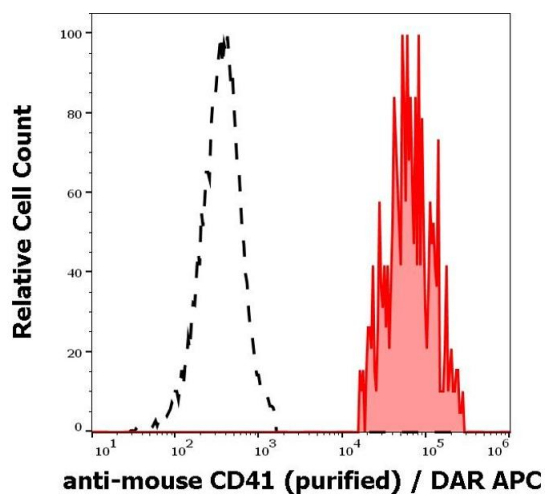
Sullivan, Wang, Tawfik, Luyendyk: "Protective and damaging effects of platelets in acute cholestatic liver injury revealed by depletion and inhibition strategies." in: **Toxicological sciences : an official journal of the Society of Toxicology**, Vol. 115, Issue 1, pp. 286-94, (2010) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocytes stained using anti-mouse CD41 (MWRReg30) purified antibody (low endotoxin, concentration in sample 0,6 µg/mL, DAR APC).



Flow Cytometry

Image 2. Separation of murine CD41 negative splenocytes (red-filled) from CD41 positive thrombocytes (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD41 (MWRReg30) purified antibody (low endotoxin, concentration in sample 0,6 $\mu\text{g/mL}$, DAR APC).