Datasheet for ABIN2749067

anti-Integrin Alpha2b antibody (PE)

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Overview

Quantity:	0.1 mg
Target:	Integrin Alpha2b (CD41)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Integrin Alpha2b antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate was purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 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. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Ramsey, Zhang, Brown, Steensma, Lin, Wu: "Stress-induced hematopoietic failure in the

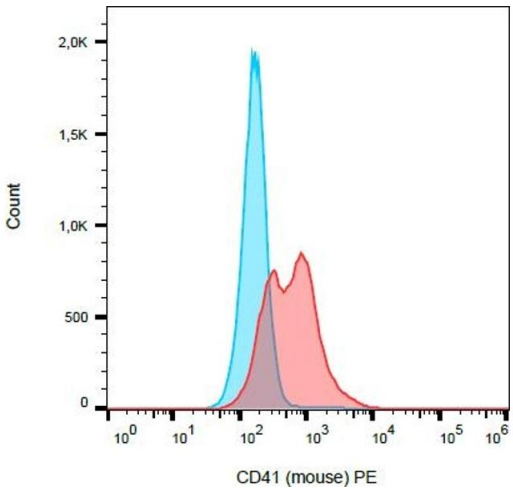
absence of immediate early response gene X-1 (IEX-1, IER3)." in: **Haematologica**, Vol. 99, Issue 2, pp. 282-91, (2014) (PubMed).

Boisset, Clapes, Van Der Linden, Dzierzak, Robin: "Integrin αIIb (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).

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).

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. Separation of murine peripheral blood stained using anti-mouse CD41 (MWReg30) PE antibody (concentration in sample 9 µg/mL, red) from unstained murine peripheral blood (blue) in flow cytometry analysis (surface staining).