



1P-763-C025

Monoclonal Antibody to CD41 (mouse) Phycoerythrin (PE) conjugated (0.025 mg)

Clone:	MWReg30
Isotype:	Rat IgG1
Specificity:	The rat monoclonal antibody MWReg30 recognizes 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.
Regulatory Status:	RUO
Immunogen:	Murine platelets
Species Reactivity:	Mouse
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate was purified by size-exclusion chromatography.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.
References:	*Brancaleone V, Gobbetti T, Cenac N, le Faouder P, Colom B, Flower RJ, Vergnolle N, Nourshargh S, Perretti M: A vasculo-protective circuit centered on lipoxin A4 and aspirin-triggered 15-epi-lipoxin A4 operative in murine microcirculation. <i>Blood</i> . 2013 Jul 25;122(4):608-17. *Boisset JC, Clapes T, Van Der Linden R, Dzierzak E, Robin C: Integrin αIIb (CD41) plays a role in the maintenance of hematopoietic stem cell activity in the mouse embryonic aorta. <i>Biol Open</i> . 2013 Apr 11;2(5):525-32. *Sullivan BP, Wang R, Tawfik O, Luyendyk JP: Protective and damaging effects of platelets in acute cholestatic liver injury revealed by depletion and inhibition strategies. <i>Toxicol Sci</i> . 2010 May;115(1):286-94. *Ramsey H, Zhang Q, Brown DE, Steensma DP, Lin CP, Wu MX: Stress-induced hematopoietic failure in the absence of immediate early response gene X-1. <i>Haematologica</i> . 2013 Sep 20. [Epub ahead of print]

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz