

TECHNICAL DATA SHEET

CyFlow™ CD41 PE Anti-Ms; Clone MWReg30

REF BQ684614

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD41
Alternative Names	gpIIb
Clone	MWReg30
Clonality	monoclonal
Format	PE
Host / Isotype	Rat / IgG1
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	Murine platelets

Specificity

The rat monoclonal antibody MWReg30 recognizes mouse CD41 antigen, a transmembrane glycoprotein (integrin family) composed of two chains GPIIb α (heavy chain; 120 kDa) and GPIIb β (light chain; 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes.

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD41 (GPIIb; platelet glycoprotein IIb) is composed of two subunits (120 kDa GPIIb α and 23 kDa GPIIb β) 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

- 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. Toxicol Sci. 2010 May; 115(1):286-94. < PMID: 20133375 >
- Boisset JC, Clapes T, Van Der Linden R, Dzierzak E, Robin C: Integrin α IIb (CD41) plays a role in the maintenance of hematopoietic stem cell activity in the mouse embryonic aorta. Biol Open. 2013 Apr 11; 2(5):525-32. < PMID: 23789102 >
- Brancalione 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. Blood. 2013 Jul 25; 122(4):608-17. < PMID: 23733341 >

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- 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. Haematologica. 2013 Sep 20; < PMID: 23812939 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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