

## ARG65515 anti-CD41 antibody [MWReg30]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rat Monoclonal antibody [MWReg30] recognizes CD41
Tested Reactivity	Ms
Tested Application	CyTOF®-candidate, ELISA, FACS, FuncSt, IHC-Fr, IHC-P, IP
Specificity	The clone 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.
Host	Rat
Clonality	Monoclonal
Clone	MWReg30
Isotype	IgG1
Target Name	CD41
Species	Mouse
Immunogen	Murine platelets
Conjugation	Un-conjugated
Alternate Names	GTA; GT; GPalpha IIb; PPP1R93; CD41; BDPLT2; BDPLT16; GP2B; Integrin alpha-IIb; GPIIb; Platelet membrane glycoprotein IIb; HPA3; CD antigen CD41; CD41B

### Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	ELISA	Assay-dependent
	FACS	1 - 4 µg/ml
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
Application Note	Functional studies: Platelet depletion. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
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Purification	Purified from cell culture supernatant by protein-G affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 16399 Mouse</a> <a href="#">Swiss-port # Q9QUM0 Mouse</a>
Gene Symbol	Itga2b
Gene Full Name	integrin alpha 2b
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.
Function	Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface. [UniProt]
Highlight	Related products: <a href="#">CD41 antibodies; Anti-Rat IgG secondary antibodies;</a> Related news: <a href="#">CyTOF-candidate Antibodies</a>
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	113 kDa