ARG10091
anti-GP IIb/IIIa antibody [237]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [237] recognizes IGP IIb/IIIa
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Mouse
Clonality	Monoclonal
Clone	237
Isotype	IgG1, kappa
Target Name	GP IIb/IIIa
Antigen Species	Human
Immunogen	Human platelet suspension
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 Note	ELISA: The mAb is reactive to platelet coated ELISA plate. Western Blot: The antibody reacts with GPIIb/IIIa on Western blot with platelet membrane glycoprotein extract. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Calculated Mw	113 kDa

Properties

Form	Liquid
Purification	Protein G affinity purified
Buffer	0.01M PBS (pH 7.2)
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	GeneID: 3674 Human Swiss-port # P08514 Human
Gene Symbol	ITGA2B
Gene Full Name	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
Background	Human platelet membrane glycoprotein Glycoprotein IIb/IIIa (GP IIb/IIIa) is a dominate receptor on the platelet membrane with very high molecular weight (>200kDa). After the platelet is activated, the GP IIb/IIIa receptor complex changes conformation and binds to fibrinogen in blood circulation with high affinity. The activation of platelets is initiated locally when the endothelial layer is wounded and the platelets are exposed to the collagen underneath the endothelium. The fibrinogen aggregates with platelets when binding to the GP IIb/IIIa receptor on platelets, thus primary haemostasis (Platelet clot) is formed.
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-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]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody