ARG22713
anti-CD41 + CD61 antibody [CO.35E4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CO.35E4] recognizes CD41 + CD61 This antibody recognizes ruminant CD41/CD61, also known as GpIIb/IIIa. CD41/CD61 is a calcium-complex dependent heterodimer and is expressed almost exclusively on platelets and on their precursors, the megakaryocytes. This complex is an activation-dependent receptor for RGD (Arg-Gly-Asp)-containing glycoproteins such as fibrinogen, fibronectin, von Willebrand factor, thrombospondin and vitronectin. It plays a central role in platelet aggregation and haemostasis.
Tested Reactivity	Bov, Cat, Dog, Goat, Hrs, Rb, Sheep
Tested Application	ELISA, FACS, IP
Host	Mouse
Clonality	Monoclonal
Clone	CO.35E4
Isotype	IgG1
Target Name	CD41 + CD61
Species	Sheep
Immunogen	Sheep leucocytes
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
ELISA	Assay-dependent
FACS	1:50 - 1:200
IP	Assay-dependent

Application Note: FACS: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

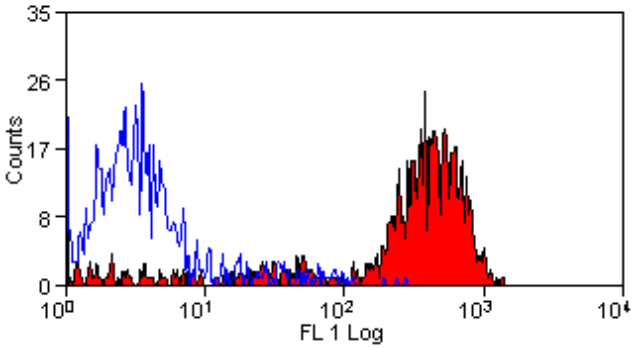
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml

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

Gene Symbol	ITGA2B
Gene Full Name	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
Background	ITGA2B encodes integrin alpha chain 2b. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 2b undergoes post-translational cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibronectin receptor expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this role result in thrombasthenia. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. [provided by RefSeq, Jul 2008]
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]
Calculated Mw	113 kDa

Images



ARG22713 anti-CD41 + CD61 antibody [CO.35E4] FACS image

Flow Cytometry: Sheep peripheral blood platelets stained with ARG22713 anti-CD41 + CD61 antibody [CO.35E4].