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CD41a / Integrin alpha2b (Platelet Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone ITGA2B/1036] Catalog # AH11603

Product Information

Application IF, FC
Primary Accession P08514
Other Accession 3674, 411312
Reactivity Human
Host Mouse
Clonality Monoclonal

Isotype Mouse / IgG1, kappa

Clone Names ITGA2B/1036
Calculated MW 113377

Additional Information

Gene ID 3674

Other Names Integrin alpha-IIb, GPalpha IIb, GPIIb, Platelet membrane glycoprotein IIb,

CD41, Integrin alpha-IIb heavy chain, Integrin alpha-IIb light chain, form 1,

Integrin alpha-IIb light chain, form 2, ITGA2B, GP2B, ITGAB

Application Note IF~~1:50~200 FC~~1:10~50

Storage Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions CD41a / Integrin alpha2b (Platelet Marker) Antibody - With BSA and Azide is

for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name ITGA2B

Synonyms GP2B, ITGAB

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 (By similarity). Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen (PubMed:9111081). This step leads to rapid platelet aggregation which physically plugs ruptured

endothelial cell surface (By similarity).

Cellular Location Membrane; Single-pass type I membrane protein.

Tissue Location Isoform 1 and isoform 2 are expressed in platelets and megakaryocytes, but

not in reticulocytes. Not detected in Jurkat, nor in U937 cell lines

(PubMed:2351656). Isoform 3 is expressed in prostate adenocarcinoma, as well as in several erythroleukemia, prostate adenocarcinoma and melanoma cell lines, including PC-3, DU-145, HEL, WM983A, WM983B and WM35. Not

detected in platelets, nor in normal prostate (at protein level)

(PubMed:9809974)

Background

Reacts with a calcium-dependent complex of CD41/CD61, a dimer of 90kDa and 140kDa present on the membrane of normal platelets and megakaryocytes. CD41/CD61 is also known as platelet glycoprotein GPIIb/GPIIIa or integrin IIa/3. This complex is the receptor of fibrinogen, fibronectin and von Willebrand factor, and mediates platelet adhesion and aggregation.

References

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.