

CD41a / Integrin alpha2b (Platelet Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone ITGA2B/1036]
Catalog # AH11603

Specification

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

Application	IF, FC
Primary Accession	P08514
Other Accession	3674 , 411312
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	90kDa kDa

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

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

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

CD41a / Integrin alpha2b (Platelet Marker) Antibody - With BSA and Azide - 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/IIIa or integrin IIa/3. This complex is the receptor of fibrinogen, fibronectin and von Willebrand factor, and mediates platelet adhesion and aggregation.

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

McMichael AJ et al. (eds) Leukocyte Typing III, Oxford University Press, Oxford, 1987. | Schlossman S. et al. (eds) Leukocyte Typing V, Oxford University Press, Oxford, 1995. | Smith JW et al. Interaction of integrins $\alpha_v\beta_3$ and glycoprotein IIb-IIIa with fibrinogen. Differential peptide recognition accounts for distinct binding sites. J Biol Chem 1990, 265(21):12267-12271. | Du XP et al. Ligands activate integrin $\alpha_{IIb}\beta_3$ (platelet GPIIb-IIIa). Cell 1991, 65(3):409-416. | Law DA et al. Outside-in integrin signal transduction. $\alpha_{IIb}\beta_3$ -(GP IIb/IIIa) tyrosine phosphorylation induced by platelet aggregation. J Biol Chem 1996, 271(18):10811-10815. | Moroi M and Jung SM. Integrin-mediated platelet adhesion. Front Biosci 1998, 3:D719-728