10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21648b

Specification

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - Product Information

Primary Accession P08514

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - 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

Target/Specificity
The synthetic peptide sequence is selected from aa 803-817 of HUMAN ITGA2B

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - 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. 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.

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)

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - Images

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - Background

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.

ITGA2B(Integrin alpha-IIb heavy chain) Blocking Peptide (C-term) - References

Poncz M.,et al.J. Biol. Chem. 262:8476-8482(1987).
Frachet P.,et al.Mol. Biol. Rep. 14:27-33(1990).
Heidenreich R.,et al.Biochemistry 29:1232-1244(1990).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).