CD61 Peptide

Subcategory: Synthetic Peptide, Blocking Peptide
Cat. No.: 350573
Unit: 0.1 mg

Description:
CD61, also called integrin beta-3, belongs to the integrin protein family that participates in cell adhesion and cell-surface mediated signalling by forming heterodimers of alpha and beta integrin chains. Integrin alpha-V/beta-3 is a receptor for cytoactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. These two integrins recognize the sequence RGD in a wide array of ligands. Integrin IIb/IIIa recognizes the sequence HHLGGGAKQAGDV in fibrinogen gamma chain. Following activation, integrin alpha-IIb/beta-3 supports platelet/platelet interaction through binding of soluble fibrinogen, leading to rapid platelet aggregation which physically plugs ruptured endothelial surface. Defects in CD61 are a cause of Glanzmann thrombasthenia, a blot clot disorder.

Format: Each vial contains 0.1 ml peptide in deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: Integrin beta-3; Platelet membrane glycoprotein IIIa; GPIIIa; CD61; ITGB3; GP3A
Accession No.: P05106

Sequence: The synthetic peptide used to raise the antibody Cat. No. 250732 is selected from a sequence within the C-term region of human CD61. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.
Purity: Purity > 80% by HPLC
Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.