

CD41 Rabbit pAb

CatalogNo: YT7836

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 114kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Integrin α IIb AA range: 1-80

Specificity This antibody detects endogenous levels of Human Integrin α IIb

Target Information

Gene name ITGA2B GP2B ITGAB

Protein NameIntegrin α IIb

Organism	Gene ID	UniProt ID
Human	3674 ;	P08514 ;
Mouse	16399 ;	Q9QUM0 ;

Cellular Localization

Membrane; Single-pass type I membrane protein.

Tissue specificity

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) .

Function

Disease:Defects in ITGA2B are a cause of Glanzmann thrombasthenia (GT) [MIM:273800]; also known as thrombasthenia of Glanzmann and Naegeli. This autosomal recessive disorder is the most common inherited disease of platelets. GT is characterized by mucocutaneous bleeding of mild-to-moderate severity and the inability of this integrin to recognize macromolecular or synthetic peptide ligands. GT has been classified clinically into types I and II. In type I , platelets show absence of the glycoprotein IIb/beta-3 complexes at their surface and lack fibrinogen and clot retraction capability. In type II , the platelets express the glycoprotein IIb/beta-3 complex at reduced levels (5-20% controls) , have detectable amounts of fibrinogen , and have low or moderate clot retraction capability. The platelets of GT 'variants' have normal or near normal (60-100%) expression of dysfunctional receptors. ,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. ,polymorphism:Position 874 is associated with platelet-specific alloantigen HPA-3/BAK/LEK. HPA-3A/BAK (A) /LEK (A) has Ile-874 and HPA-3B/BAK (B) /LEK (B) has Ser-874. HPA-3B is involved in neonatal alloimmune thrombocytopenia (NAIT or NATP) . ,similarity:Belongs to the integrin alpha chain family. ,similarity:Contains 7 FG-GAP repeats. ,subunit:Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an heavy and a light chain linked by a disulfide bond. Alpha-IIb associates with beta-3. Directly interacts with RNF181. ,tissue specificity:Isoform 1 and isoform 2 were identified in platelets and megakaryocytes , but not in reticulocytes or in Jurkat and U937 white blood cell line. Isoform 3 is expressed by leukemia , prostate adenocarcinoma and melanoma cells but not by platelets or normal prostate or breast epithelial cells. ,

| Validation Data

| Contact information

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