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35-1436: Polyclonal Antibody to Integrin beta3 (Ab-773)

Clonality: Polyclonal Application: WB,IHC

Reactivity: Human, Mouse, Rat

Gene : ITGB3
Gene ID : 3690
Uniprot ID : P05106
Format : Purified

Alternative Name: Platelet membrane glycoprotein Illa

Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around aa. 771~775 (P-L-Y-K-E) derived from Human Integrin b3.

Description

Integrin a-V/beta-3 is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin a-Ilb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrins a-Ilb/beta-3 and a-V/beta-3 recognize the sequence R-G-D in a wide array of ligands. Integrin a-Ilb/beta-3 recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin a-Ilb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial surface. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

Product Info

Amount : 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

Storage condition : Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Predicted MW: 110kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

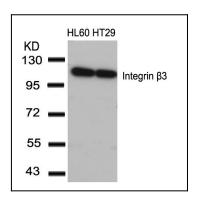


Figure 1: Western blot analysis of extracts from HL60 and HT29 cells using Integrin b3 (Ab-773) Antibody 35-1436.



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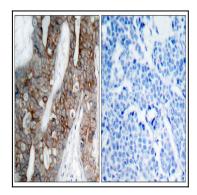


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Integrin b3(Ab-773) Antibody 35-1436 (left) or the same antibody preincubated with blocking peptide(right).