

Integrin a6 Polyclonal Antibody

Catalog No: YT5590

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: Integrin α6

Fields: >>PI3K-Akt signaling pathway;>>Focal adhesion;>>ECM-receptor

interaction;>>Cell adhesion molecules;>>Hematopoietic cell

lineage;>>Regulation of actin cytoskeleton;>>Toxoplasmosis;>>Human

papillomavirus infection;>>Pathways in cancer;>>Small cell lung

cancer;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular

cardiomyopathy;>>Dilated cardiomyopathy

Gene Name: ITGA6

Protein Name: Integrin alpha-6

P23229

Q61739

Human Gene Id: 3655

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from the

Internal region of human ITGA6. AA range:901-950

Specificity: Integrin a6 Polyclonal Antibody detects endogenous levels of Integrin a6 protein.

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

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

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

Observed Band: 125kD

Cell Pathway: Focal adhesion;ECM-receptor interaction;Cell adhesion molecules

(CAMs); Hematopoietic cell lineage; Regulates Actin and Cytoskeleton; Pathways

in cancer;Small cell lung cancer;Hypertrophic cardiomyopathy

Background: integrin subunit alpha 6(ITGA6) Homo sapiens The gene encodes a member of

the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 6 subunit. This subunit may associate with a beta 1 or beta 4 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. The alpha 6 beta 4 integrin may promote tumorigenesis, while the alpha 6 beta 1 integrin may negatively regulate erbB2/HER2 signaling. Alternative splicing

results in multiple transcript variants. [provided by RefSeq, Oct 2015],

Function: alternative products: Additional isoforms seem to exist. There is a combination of

at least four alternatively spliced domains, two extracellular (X1 and X2) and two

cytoplasmic (A and B). So far detected are isoform Alpha-6X1A, isoform Alpha-6X1B and isoform Alpha-6X1X2A (minor). Experimental confirmation may

be lacking for some isoforms, disease: Defects in ITGA6 are a cause of

epidermolysis bullosa with pyloric atresia (EB-PA) [MIM:226730]; also known as aplasia cutis congenita with gastrointestinal atresia. EB-PA is an autosomal recessive disease characterized by mucocutaneous fragility and gastrointestinal

atresia, which most commonly affects the pylorus.,function:Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for

laminin in epithelial cells and it plays a critical structural role in the

hemidesmosome.,PTM:Isoforms containing segme

Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Cell membrane ; Lipid-

anchor.

Expression: Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoforms

containing segment X1 are ubiquitously expressed. Isoforms containing segment X1X2 are expressed in heart, kidney, placenta, colon, duodenum, myoblasts and myotubes, and in a limited number of cell lines; they are always coexpressed with the ubiquitous isoform containing segment X1. In some tissues (e.g. Salivary gland), isoforms containing cytoplasmic segment A and isoforms containing segment B are detected while in others, only isoforms containing one cytoplasmic segment are found (segment A in epidermis and segment B in kidney). Processed integrin alpha-6: Expressed at low levels in normal prostate tissue with elevated levels in prostate cancer tissue (at protein level) (PubMed:15023541).

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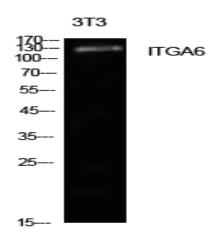
Sort : 8606

No4: 1

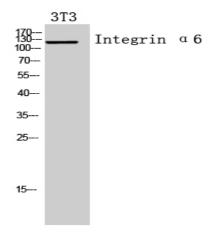
Host: Rabbit

Modifications: Unmodified

Products Images



Western Blot analysis of NIH-3T3 cells using Integrin $\alpha6$ Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of 3T3 cells using Integrin α 6 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

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