

## Integrin a3 Polyclonal Antibody

Catalog No: YT2362

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;ELISA

Target: Integrin a3

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

interaction;>>Hematopoietic cell lineage;>>Regulation of actin

cytoskeleton;>>Human papillomavirus infection;>>Pathways in cancer;>>Small cell lung cancer;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right

ventricular cardiomyopathy;>>Dilated cardiomyopathy

Gene Name: ITGA3

Protein Name: Integrin alpha-3

P26006

Q62470

Human Gene Id: 3675

**Human Swiss Prot** 

No:

Mouse Gene Id: 16400

**Mouse Swiss Prot** 

No:

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

Integrin alpha3. AA range:482-531

**Specificity:** Integrin a Polyclonal Antibody detects endogenous levels of Integrin a 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: 1:40000. Not yet tested in other applications.

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

1/3



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: 150kD

Cell Pathway: Focal adhesion; ECM-receptor interaction; Hematopoietic cell lineage; Regulates

Actin and Cytoskeleton; Pathways in cancer; Small cell lung cancer; Hypertrophic

cardiomyopathy (HCM);Arrhythmogenic right ven

**Background :** integrin subunit alpha 3(ITGA3) 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 as cell surface adhesion molecules. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 3 subunit. This subunit joins with a beta 1 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. Expression

of this gene may be correlated with breast cancer metastasis. [provided by RefSeq, Oct 2015],

**Function:** function:Integrin alpha-3/beta-1 is a receptor for fibronectin, laminin, collagen,

epiligrin, thrombospondin and CSPG4. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration.,PTM:Isoform alpha-3A, but not isoform alpha-3B, is phosphorylated on serine residues. Phosphorylation increases after phorbol 12-myristate 13-acetate stimulation. Isoform alpha-3A is phosphorylated on Tyr-1051.,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-3 associates with beta-1. Interacts with HPS5.,tissue specificity:Isoform alpha-3A is widely expressed. Isoform alpha-3B

is expressed in brain and heart. In brain, both isoforms are exclusively expressed

on vascular smooth muscle cell

Subcellular Cell membrane; Single-paranchor. Cell projection, inv

Cell membrane; Single-pass type I membrane protein. Cell membrane; Lipidanchor. Cell projection, invadopodium membrane; Single-pass type I membrane protein. Cell projection, filopodium membrane; Single-pass type I membrane protein. Enriched preferentially at invadopodia, cell membrane protrusions that

correspond to sites of cell invasion, in a collagen-dependent manner. .

**Expression:** Isoform 1 is widely expressed. Isoform 2 is expressed in brain and heart. In

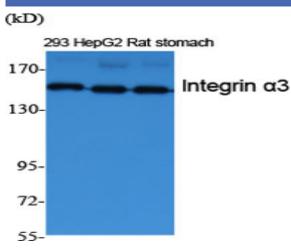
brain, both isoforms are exclusively expressed on vascular smooth muscle cells, whereas in heart isoform 1 is strongly expressed on vascular smooth muscle

cells, isoform 2 is detected only on endothelial vein cells.

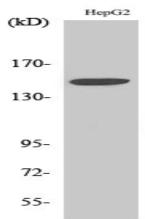
2/3



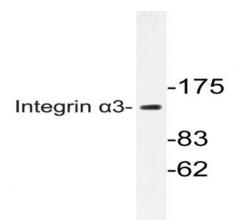




Western Blot analysis of various cells using Integrin  $\alpha 3$  Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HepG2 cells using Integrin  $\alpha 3$  Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysate from HepG2 cells, using Integrin  $\alpha 3$  antibody.