

## Integrin a1 Polyclonal Antibody

Catalog No: YT5908

**Reactivity:** Human; Rat; Mouse;

**Applications:** IHC;IF;ELISA

Target: Integrin a1

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

interaction;>>Hematopoietic cell lineage;>>Regulation of actin cytoskeleton;>>Human papillomavirus infection;>>Hypertrophic

cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated

cardiomyopathy

P56199

Q3V3R4

Gene Name: ITGA1

Protein Name: Integrin alpha-1 (CD49 antigen-like family member A) (Laminin and collagen

receptor) (VLA-1) (CD antigen CD49a)

Human Gene Id: 3672

**Human Swiss Prot** 

No:

Mouse Gene Id: 109700

**Mouse Swiss Prot** 

No:

**Immunogen:** Synthetic peptide from human protein at AA range: 920-980

**Specificity:** The antibody detects endogenous Integrin α1

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

Source: Polyclonal, Rabbit, IgG

**Dilution :** IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200

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

1/3



chromatography using epitope-specific immunogen.

**Concentration:** 1 mg/ml

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

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

Actin and Cytoskeleton; Hypertrophic cardiomyopathy (HCM); Arrhythmogenic

right ventricular cardiomyopathy (ARVC); Dilated car

integrin subunit alpha 1(ITGA1) Homo sapiens This gene encodes the alpha 1 **Background:** 

> subunit of integrin receptors. This protein heterodimerizes with the beta 1 subunit to form a cell-surface receptor for collagen and laminin. The heterodimeric

> receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. The alpha 1 subunit contains an inserted (I) von Willebrand factor type I domain which is thought to be involved in collagen binding. [provided by RefSeq,

Jul 2008],

**Function:** domain: The integrin I-domain (insert) is a VWFA domain. Integrins with I-

> domains do not undergo protease cleavage.,function:Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline-hydroxylated sequence

G-F-P-G-E-R in collagen., similarity: Belongs to the integrin alpha chain family., similarity: Contains 1 VWFA domain., similarity: Contains 7 FG-GAP

repeats., subunit: Heterodimer of an alpha and a beta subunit. Alpha-1 associates

with beta-1. Interacts with RAB21.,

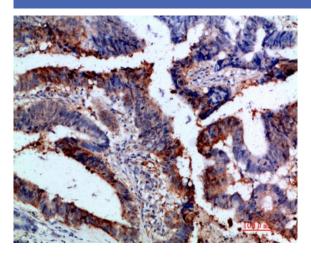
Subcellular

Location:

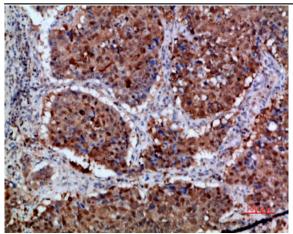
**Expression:** Brain, Liver, Plasma,

## **Products Images**

Membrane; Single-pass type I membrane protein.



Immunohistochemical analysis of paraffin-embedded humancolon-cancer, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-lung-cancer, antibody was diluted at 1:200