



Integrin α5 Monoclonal Antibody

Catalog No	YP-Ab-16836
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	ITGA5
Immunogen	Purified recombinant fragment of human Integrin α5 expressed in E. Coli.
Specificity	Integrin α5 Monoclonal Antibody detects endogenous levels of Integrin α5 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD49 antigen-like family member E;CD49e;Fibronectin receptor subunit alpha; Fibronectin receptor;alpha subunit;FNRA;Integrin alpha 5 (fibronectin receptor alpha);Integrin alpha-5;Integrin alpha-5 light chain;Integrin alpha-F;Integrin;alpha 5 (fibronectin receptor;alpha polypeptide);ITA5_HUMAN;Itga5;Very late activation protein 5;VLA-5;VLA5;VLA5A;Integrin α5;CD antigen CD49e
Observed Band	115kD
Calculated Molecular Weight	115kD
Cell Pathway	Membrane; Single-pass type I membrane protein. Cell junction, focal adhesion . Cell surface .
Tissue Specificity	Liver,Placenta,
Function	function:Integrin alpha-5/beta-1 is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.,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-5 associates with beta-1. Interacts with HPS5



and NISCH. Interacts with HIV-1 Tat. Interacts with RAB21.,

Background

integrin subunit alpha 5(ITGA5) Homo sapiens The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015],

matters needing attention

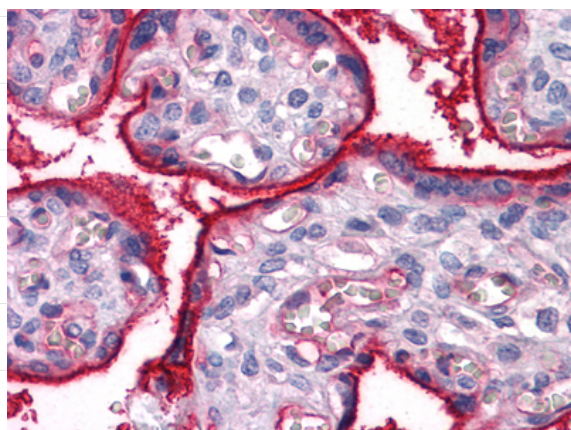
Avoid repeated freezing and thawing!

Usage suggestions

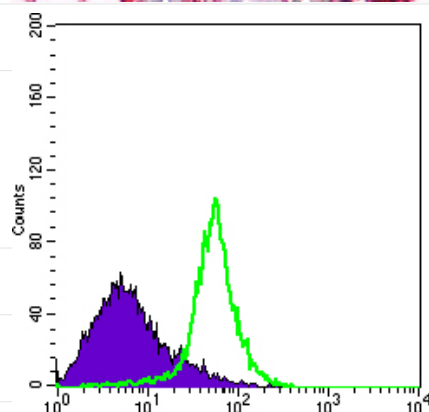
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Immunohistochemistry analysis of paraffin-embedded human Placenta tissues with AEC staining using Integrin $\alpha 5$ Monoclonal Antibody.



Flow cytometric analysis of HeLa cells using Integrin $\alpha 5$ Monoclonal Antibody (green) and negative control (purple).