



Integrin α 5 Monoclonal Antibody

Catalog No	YP-Ab-16842
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine
Applications	WB;FCM
Gene Name	ITGA5
Protein Name	Integrin alpha-5
Immunogen	Purified recombinant human Integrin α 5 (N-terminus) protein fragments expressed in E.coli.
Specificity	Integrin α 5 Monoclonal Antibody detects endogenous levels of Integrin α 5 protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Flow cytometry: 1/100 - 1/200. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	ITGA5; FNRA; Integrin alpha-5; CD49 antigen-like family member E; Fibronectin receptor subunit alpha; Integrin alpha-F; VLA-5; CD antigen CD49e
Observed Band	
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],

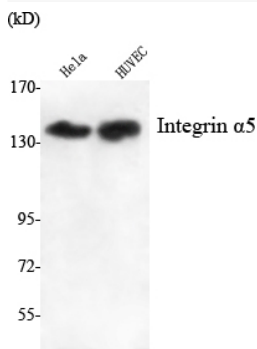
matters needing attention

Avoid repeated freezing and thawing!

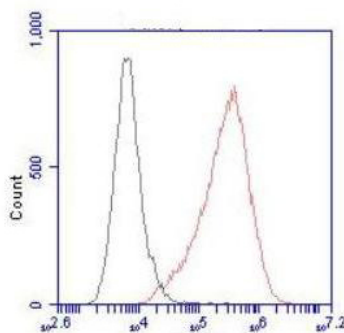
Usage suggestions

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

Products Images



Western Blot analysis using Integrin $\alpha 5$ Monoclonal Antibody against HeLa, HUVEC cell lysate.



Flow cytometric analysis of HeLa cells stained with Integrin $\alpha 5$ Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Black line histogram represents the isotype control, normal mouse IgG.