



ITGA3 (heavy chain, Cleaved-Phe33) mouse mAb

Catalog No	YP-mAb-16814
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ITGA3 MSK18
Immunogen	Synthesized peptide derived from human ITGA3 (heavy chain, Cleaved-Phe33)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat ITGA3 (heavy chain, Cleaved-Phe33, protein was cleaved amino acid sequence between 32-33)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ITGA3;CD49 antigen-like family member C;CD49C;FRP 2;FRP-2;Integrin α3; ITGA3 MSK18;ITGA3 (heavy chain;Cleaved-Phe33);Integrin alpha-3 (CD49 antigen-like family member C;Galactoprotein B3;GAPB3;VLA-3 subunit alpha; CD antigen CD49c) [Cleaved into: Integrin alpha-3 heavy chain;Integrin alpha-3 light chain]; Cleaved-Phe33)
Observed Band	93 115kD
Calculated Molecular Weight	93 115kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Cell membrane ; Lipid-anchor . 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. .
Tissue Specificity	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.



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

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],

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.

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