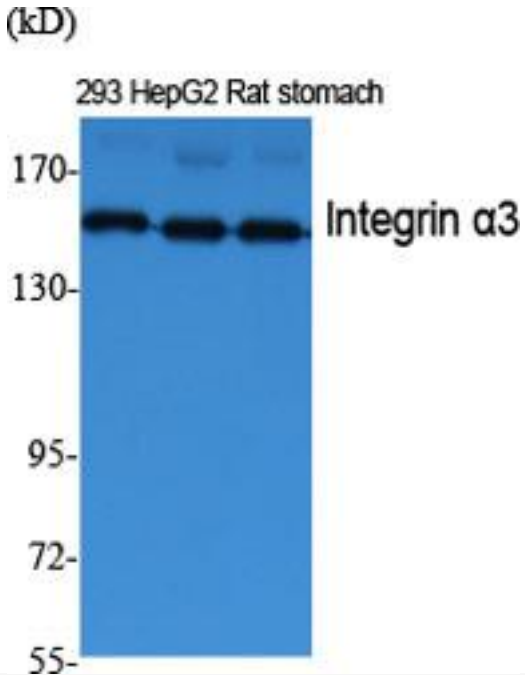
Integrin α 3 Monoclonal Antibody

Catalog No	YP-mAb-17029
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ITGA3
Immunogen	The antiserum was produced against synthesized peptide derived from human Integrin alpha3. AA range:482-531
Specificity	Integrin α3 Monoclonal Antibody detects endogenous levels of Integrin α3 protein.
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	AA4768;Antigen identified by monoclonal antibody J143;CD49 antigen like family member C;CD49 antigen-like family member C;CD49c;CD49c antigen;FLJ34631;FLJ3474;FRP 2;FRP-2;FRP2;Galactoprotein B3;GAP B3;GAPB3;Integrin alpha 3;Integrin alpha-3 light chain;Integrin;alpha 3 (antigen CD49C;alpha 3 subunit of VLA-3 receptor);ITA3_HUMAN;ITGA 3;Itga3;MSK18;VCA 2;VCA2;Very late activation protein 3 receptor alpha 3 subunit;VL3A;VLA 3 alpha chain;VLA 3 subunit alpha;VLA-3 subunit alpha;VLA3a;Integrin α3;Integrin alpha-3;CD antigen CD49c
Observed Band	150kD
Calculated Molecular Weight	150kD
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.

Products Images



Western Blot analysis of various cells using Integrin α 3 Monoclonal Antibody