



Smad5 Monoclonal Antibody

Catalog No	YP-mAb-02225
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SMAD5
Immunogen	Synthesized peptide derived from the Internal region of human Smad5.
Specificity	Smad5 Monoclonal Antibody detects endogenous levels of Smad5 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	MADH5;MAD homolog 5;JV5-1;JV5 1;hSmad5;Smad5;Mothers against decapentaplegic homolog 5;Mothers against DPP homolog 5;SMAD family member 5;SMAD 5
Observed Band	52kD
Calculated Molecular Weight	52kD
Cell Pathway	Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4.
Tissue Specificity	Ubiquitous.
Function	function:Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD).,PTM:Phosphorylated on serine by BMP (bone morphogenetic proteins) type 1 receptor kinase.,PTM:Ubiquitin-mediated proteolysis by SMAD-specific E3 ubiquitin ligase SMURF1.,similarity:Belongs to the dwarfin/SMAD family.,similarity:Contains 1 MH1 (MAD homology 1) domain.,similarity:Contains 1 MH2 (MAD homology 2) domain.,subcellular location:Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4.,subunit:May form trimers with the co-SMAD SMAD4. Interacts with PEBP2-alpha subunit and SMURF1. Interacts with SUV39H1 and SUV39H2.,tissue specificity:Ubiquitous.,



Background

The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014],

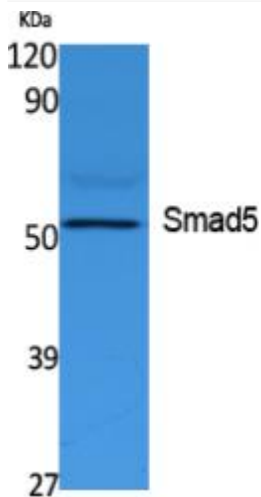
matters needing attention

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 Smad5 Monoclonal Antibody