



Smad1/5/9 Monoclonal Antibody

Catalog No	BYmab-02014
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SMAD1/SMAD5/SMAD9
Protein Name	Mothers against decapentaplegic homolog 1/Mothers against decapentaplegic homolog 5/Mothers against decapentaplegic homolog 9
Immunogen	The antiserum was produced against synthesized peptide derived from human Smad1/5/9. AA range:10-59
Specificity	Smad1/5/9 Monoclonal Antibody detects endogenous levels of Smad1/5/9 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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SMAD1; BSP1; MADH1; MADR1; Mothers against decapentaplegic homolog 1; MAD homolog 1; Mothers against DPP homolog 1; JV4-1; Mad-related protein 1; SMAD family member 1; SMAD 1; Smad1; hSMAD1; Transforming growth factor-beta-signaling protein
Observed Band	56kD
Cell Pathway	Cytoplasm . Nucleus . Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4 (PubMed:15647271). Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15647271). Exported from the nucleus to the cytoplasm when dephosphorylated (By similarity).
Tissue Specificity	Ubiquitous. Highest expression seen in the heart and skeletal muscle.
Function	function:Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD).,PTM:Phosphorylated on serine by BMP 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
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MH1 (MAD homology 1) domain.,similarity:Contains 1 MH domain.,subcellular location:Cytoplasmic in the absence of	of ligand. Migrates to the
nucleus when complexed with SMAD4., subunit:Interacts v ZCCHC12 (By similarity). May form trimers with another S co-SMAD SMAD4. Interacts with PEBP2-alpha subunit, C	SMAD1 and the
(CBP), p300, SMURF1, SMURF2 and HOXC8. Associate ZNF521 in response to BMP2 leading to activate transcrip	s with ZNF423 or
genes. Interacts with LBXCOR1.,	.

Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-med

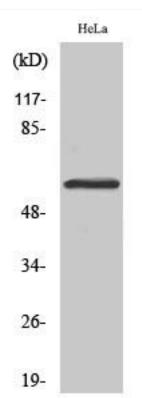
matters needing attention

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 Smad1/5/9 Monoclonal Antibody

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