



Smad6 Monoclonal Antibody

Catalog No	YP-Ab-01019
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	SMAD6
Protein Name	Mothers against decapentaplegic homolog 6
Immunogen	Purified recombinant fragment of human Smad6 expressed in E. Coli.
Specificity	Smad6 Monoclonal Antibody detects endogenous levels of Smad6 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SMAD6; MADH6; Mothers against decapentaplegic homolog 6; MAD homolog 6; Mothers against DPP homolog 6; SMAD family member 6; SMAD 6; Smad6; hSMAD6
Observed Band	
Cell Pathway	Nucleus .
Tissue Specificity	Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue.
Function	function: Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit selectively BMP (bone morphogenetic proteins) signaling by competing with the co-SMAD SMAD4 for receptor-activated SMAD1. SMAD6 is an inhibitory SMAD (I-SMAD) or antagonistic SMAD. Binds to regulatory elements in target promoter regions., PTM: Phosphorylated by BMP type 1 receptor kinase and by PRKX., similarity: Belongs to the dwarfin/SMAD family., similarity: Contains 1 MH1 (MAD homology 1) domain., similarity: Contains 1 MH2 (MAD homology 2) domain., subunit: Interacts with NEDD4L (By similarity). Interacts with RNF111 and AXIN1. Interacts with TGF-beta type I receptor superfamily members, SMAD1, HOXC8 and HOXC9. Interacts with STAMPB and PRKX., tissue specificity: Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue.



Background

The protein encoded by this gene belongs to the SMAD family of proteins, which are related to Drosophila mothers against decapentaplegic (Mad) and C. elegans Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants have been found for this gene.[provided by RefSeq, Sep 2014],

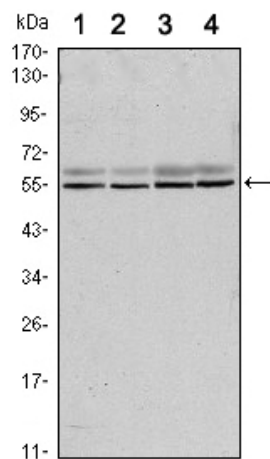
matters needing attention

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 using Smad6 Monoclonal Antibody against A431 (1), A431 (2), HeLa (3) and Jurkat (4) cell lysate.