Best Tools for immunology Research

Smad1/9 (PTR2351) mouse mAb

Catalog No :	YM4733
Reactivity :	Human;Mouse;Rat;Monkey;
Applications :	WB;IF;ELISA
Target :	SMAD1/9
Gene Name :	SMAD1 SMAD9
Protein Name :	Mothers against decapentaplegic homolog 1 (MAD homolog 1/9) (Mothers against DPP homolog 1/9) (JV4-1) (Mad-related protein 1) (SMAD family member 1) (SMAD 1/9) (Smad1) (hSMAD1) (Transforming growth fa
Human Gene Id :	4086
Human Swiss Prot No :	Q15797/O15198
Mouse Gene Id :	17125
Mouse Swiss Prot No :	P70340
Immunogen :	Synthesized peptide derived from human Smad1/9 AA range: 400-465
Specificity :	This antibody detects endogenous levels of Smad1/9 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2a, kappa
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

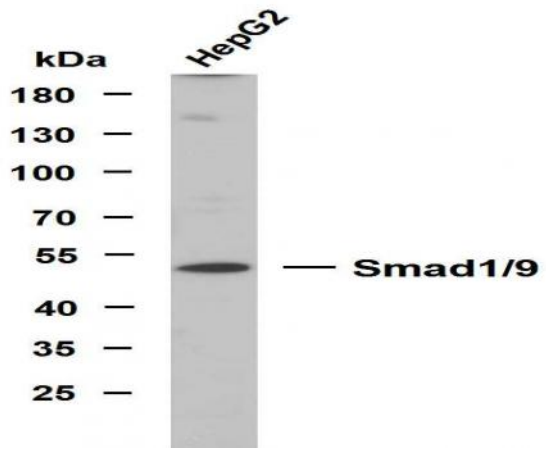
Observed Band : 58-60kD

Background : SMAD family member 1(SMAD1) Homo sapiens 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

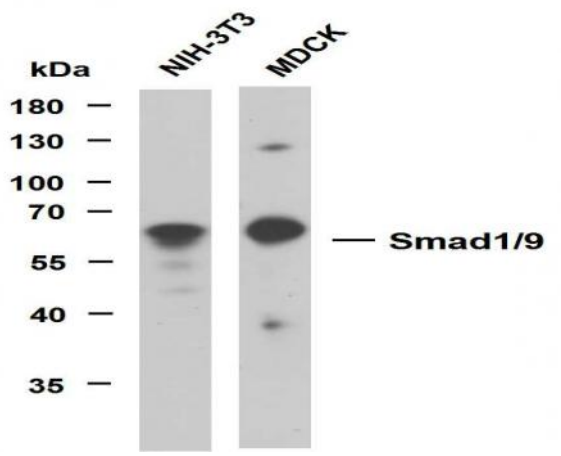
Function : Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1. May act synergistically with SMAD4 and YY1 in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression.

Expression : Ubiquitous. Highest expression seen in the heart and skeletal muscle.

Products Images



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Smad1/9(PTR2351) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Smad1/9(PTR2351) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: MDCK