

Product Name: Smad1 (phospho Ser465) Rabbit Polyclonal Antibody
Catalog #: APRab05437

Summary

Production Name	Smad1 (phospho Ser465) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	ELISA,IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SMAD1
Alternative Names	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
Gene ID	4086.0
SwissProt ID	Q15797.The antiserum was produced against synthesized peptide derived from human Smad1 around the phosphorylation site of Ser465. AA range:416-465

Application

Dilution Ratio	WB 1:500 - 1:2000 IHC 1:100 - 1:300. ELISA: 1:20000..
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Molecular Weight 60kD

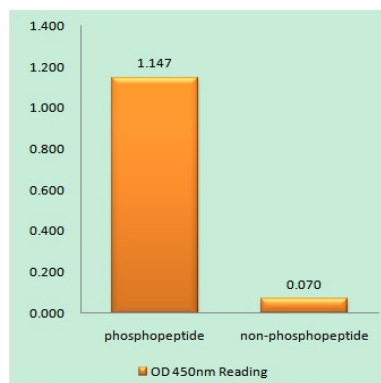
Background

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-mediated 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 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: Interacts with HGS, NANOG and ZCCHC12 (By similarity). May form trimers with another SMAD1 and the co-SMAD SMAD4. Interacts with PEBP2-alpha subunit, CREB-binding protein (CBP), p300, SMURF1, SMURF2 and HOXC8. Associates with ZNF423 or ZNF521 in response to BMP2 leading to activate transcription of BMP target genes. Interacts with LBXCOR1. tissue specificity: Ubiquitous. Highest expression seen in the heart and skeletal muscle.

Research Area

TGF-beta;

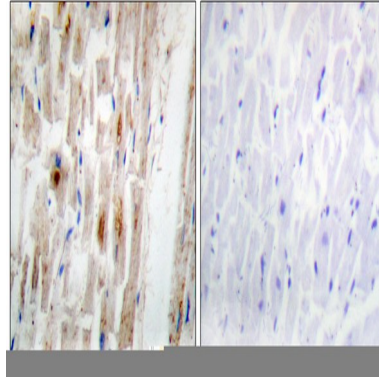
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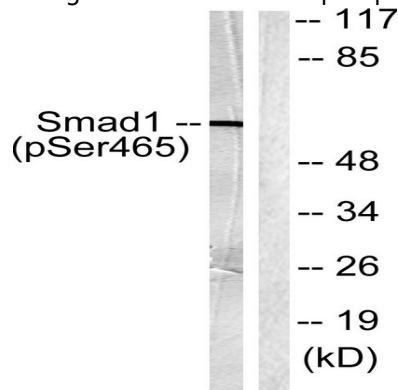
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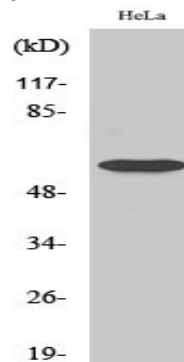
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using Smad1 (Phospho-Ser465) Antibody



Immunohistochemistry analysis of paraffin-embedded human heart, using Smad1 (Phospho-Ser465) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Serum 10% 15', using Smad1 (Phospho-Ser465) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-Smad1 (S465) Polyclonal Antibody

Note

For research use only.

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