Product Name: Smad1 Rabbit Polyclonal Antibody

Catalog #: APRab17986



Summary

Production Name Smad1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB

Reactivity Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
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

SMAD1; BSP1; MADH1; MADR1; Mothers against decapentaplegic homolog 1; MAD

homolog 1; Mothers against DPP homolog 1; JV4-1; Mad-related protein 1; SMAD Alternative Names

family member 1; SMAD 1; Smad1; hSMAD1; Transforming growth factor-beta-

signaling protein 1; BSP-1

Gene ID 4086.0

SwissProt ID Q15797.Synthesized peptide derived from Smad1 . at AA range: 150-230

Application

Dilution Ratio WB 1:500-2000 ELISA 2000-20000.

Molecular Weight 52kD

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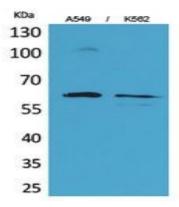
Background

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 proteasomemedfunction: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: Ubiquitinmediated 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;

Image Data



Western Blot analysis of A549, K562 cells using Smad1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Note

For research use only.

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