

Smad1 (Phospho Ser206) Rabbit pAb

CatalogNo: YP1499

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 52kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human Smad1 (Ser206)

Specificity This antibody detects endogenous levels of Human Smad1 (phospho-Ser206)

Target Information

Gene name SMAD1 BSP1 MADH1 MADR1

Protein Name

Smad1 (Ser206)

Organism	Gene ID	UniProt ID
Human	4086;	Q15797;
Mouse	17125;	P70340;
Rat		P97588;

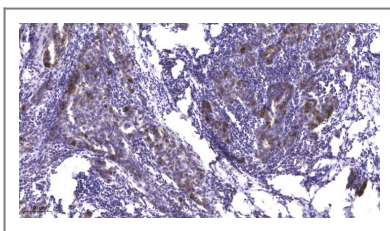
Cellular Localization

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 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. ,

Validation Data

Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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