

Anti-SMAD1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken)
Molecular Weight:	Theoretical: 51 kDa. Actual: 51 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SMAD1) Polyclonal Antibody, Unconjugated (TMAB-01734) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Tissue/cell: human breast cancer; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-MDFI Polyclonal Antibody, Unconjugated (TMAB-01734) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

3. Sample:

MCF-7 (Human) Cell Lysate at 30 µg

Primary: Anti-SMAD1 (TMAB-01734) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kDa

Observed band size: 51 kDa

4. Sample:

H9C2 (Rat) Cell Lysate at 30 µg

Primary: Anti-SMAD1 (TMAB-01734) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kDa

Observed band size: 51 kDa

5. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (SMAD1) Polyclonal Antibody, Unconjugated (TMAB-01734) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

6. Sample:

Heart (Mouse) Lysate at 40 µg

Muscle (Mouse) Lysate at 40 µg

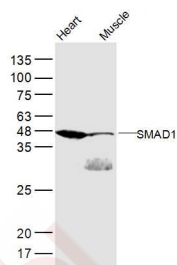
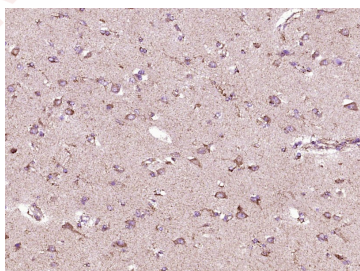
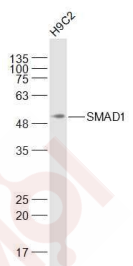
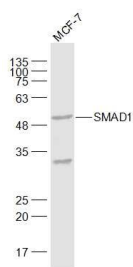
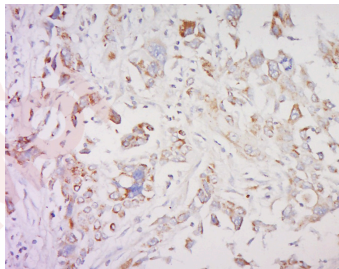
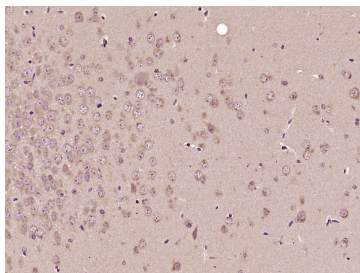
Primary: Anti-SMAD1 (TMAB-01734) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kDa

Observed band size: 51 kDa

Verified Activity:



Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human SMAD1

Antigen Species: Human

Gene ID: 4086

Uniprot ID: Q15797

Synonyms: JV4-1;MADH1;SMAD 1;Transforming Growth Factor-Beta-Signaling Protein 1;Transforming Growth Factor- β -Signaling Protein 1;SMAD Family Member 1;Mothers Against DPP Homolog 1; BSP1;SMAD1;BSP-1;Mothers Against Decapentaplegic Homolog 1;hSMAD1;MADR1;MAD Homolog 1;Mad-Related Protein 1

Biology Area: TGF,SMADs,SMADs,Cytoplasmic

Research 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 degradation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq].

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