bs-3417R **[Primary Antibody]**

phospho-Smad1 (Ser206) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4086 **SWISS:** Q15797

Target: Smad1 (Ser206)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Smad1 around the phosphorylation site of Ser206: PH(p-S)PT.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

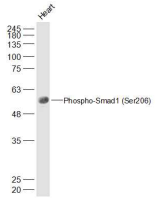
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat)

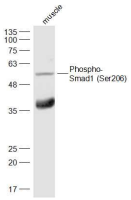
Predicted MW.: 52 kDa

Subcellular Location: Nucleus

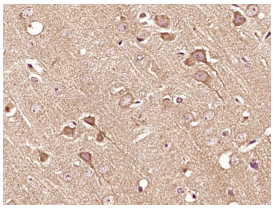
VALIDATION IMAGES



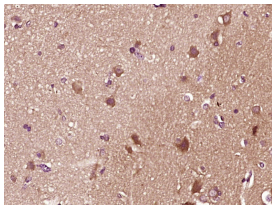
Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-Phospho-Smad1 (Ser206) (bs-3417R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



Sample: Muscle(Mouse) Cell Lysate at 40 ug Primary: Anti-Phospho-Smad1 (Ser206) (bs-3417R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Smad1 (Ser206)) Polyclonal Antibody, Unconjugated (bs-3417R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Smad1 (Ser206)) Polyclonal Antibody, Unconjugated (bs-3417R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.6]** Shuang Liu. et al. Periodontal ligament-associated protein-1 knockout mice regulate the differentiation of osteoclasts and osteoblasts through TGF-β1/Smad signaling pathway. J CELL PHYSIOL. 2023 Jun;: WB ;Mouse. 37357387
- **[IF=4.3]** Shuang Liu. et al. Periodontal ligament-associated protein-1 promotes osteoclastogenesis in mice by modulating TGF-β1/Smad1 pathway. J PERIODONTOL. 2023 Jul;: WB ;Mouse. 37436700
- **[IF=2.784]** Yang et al. miR-1307-3p suppresses the chondrogenic differentiation of human adipose-derived stem cells by targeting BMPR2. (2018) Int.J.Mol.Med. 42:3115-3124 WB ;. 30272255