

Anti-Smad1 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P100670

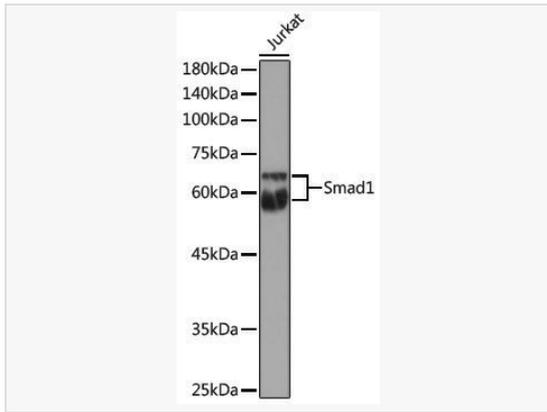
Product Information

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|-------------|---|
| Application | WB, ELISA |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:500~1:1,000 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | Recombinant fusion protein containing a sequence corresponding to amino acids 20-240 of human Smad1 (NP_001003688.1). |
| Format | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-Smad1 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|---------------|--|
| Synonyms | BSP1; JV41; BSP-1; JV4-1; MADHI; MADR1; Smad1. |
| Calculated MW | Calculated MW: 52 kDa; Observed MW: 60 kDa |
| Uniprot ID | Q15797 |
| Gene ID | 4086 |
| 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. |

Validation Images



Western blot analysis of lysates from Jurkat cells, using Smad1 Rabbit pAb (P100670) at 1:1,000 dilution.

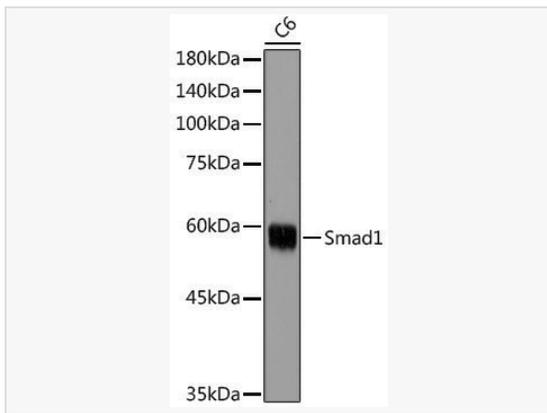
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit.

Exposure time: 180s.



Western blot analysis of lysates from C6 cells, using Smad1 Rabbit pAb (P100670) at 1:1,000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Kit.

Exposure time: 30s.