

# Smad4 Polyclonal Antibody

**CATALOG #:** 3464-100

**AMOUNT:** 100 µg

**LOT #:** \_\_\_\_\_

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide corresponding to amino acids residues around 281 of human Smad4 (Internal ID# BV-921).

**SPECIES REACTIVITY:** human, mouse, rat

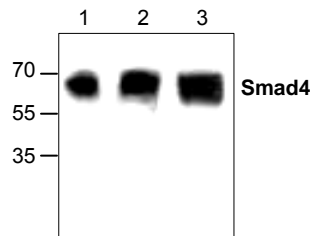
**FORMULATION:**  
100 µg (0.5 mg/ml) antigen affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**STORAGE CONDITIONS:**  
Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND:**  
Smad proteins, the mammalian homologs of the *Drosophila* Mothers against dpp (Mad), have been implicated as downstream effectors of TGFβ/BMP signaling. Smad1, Smad5, and Smad8 are effectors of BMP2 and BMP4 function while Smad2 and Smad3 are involved in TGF-β and activin-mediated growth modulation. Smad4 has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to activin/TGFβ signaling by interfering with TGFβ-mediated phosphorylation of other Smad family members.

**SPECIFICITY:**  
The antibody recognizes ~68 kDa Smad4 from samples of human, mouse, and rat origins. Reactivity to other species has not been tested.

**APPLICATION:**  
The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide (Cat.# 3464BP-50) is available separately.



**Cat. #: 3464-100**  
Western blot analysis of Smad4 in lysate from rat kidney (Lane 1), 3T3 cells (Lane 2) and Jurkat cells (Lane 3).

**RELATED PRODUCTS:**

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  - Caspase Assay Kits & Reagents
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  - Apoptosis Inducers and Set
  - Apoptosis siRNA Vectors
- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
  - Nuclear/Cytosol Fractionation Kit
  - Membrane Protein Extraction Kit
  - Cytosol/Particulate Rapid Separation Kit
  - Mammalian Cell Extraction Kit
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  - HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
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  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
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  - PLTP Activity Assay & Drug Discovery Kits
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- Growth Factors and Cytokines
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