

Smad1 Polyclonal Antibody

CATALOG #:	3461-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide corresponding to amino acid residues around 253 of human Smad1 (ID# BV-582).
SPECIES REACTIVITY:	human, mouse, rat

FORMULATION:

100 µg (0.5 mg/ml) 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:

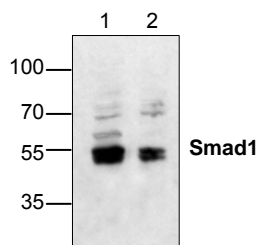
Smad proteins, the mammalian homologs of the *Drosophila* Mothers against dpp (*Mad*), have been implicated as downstream effectors of TGFβ/BMP signaling. Smad1, Smad5, and Smad8 are effectors of BMP2 and BMP4 function while Smad2 and Smad3 are involved in TGF-β and activin-mediated growth modulation. 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 ~50-60 kDa Smad1 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.# 3461BP-50) is available separately.



Cat#: 3461-100
Western blot analysis of Smad1 in rat kidney tissue lysate (Lane 1) and 3T3 cell lysate (Lane 2).

RELATED PRODUCTS:

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- Nuclear Apoptosis Kits & Reagents
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- Nuclear/Cytosol Fractionation Kit
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- Mammalian Cell Extraction Kit
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