

## Anti-Smad4 Antibody Picoband™

Catalog Number: PB9397

### About SMAD4

SMAD4 (Mothers Against Decapentaplegic Drosophila Homolog of 4), also known as MADH4 or DPC4, is a protein that in humans is encoded by the SMAD4 gene. It belongs to the Darwin family of proteins that modulate members of the TGFbeta protein superfamily. Hahn et al. (1996) identified the SMAD4 gene on chromosome 18q21.1. Howe et al. (1998) identified the SMAD4 gene within a region on 18q21.1 defined by linkage analysis in kindred with juvenile polyposis syndrome. To test directly the hypothesis that the SMAD4 gene is a tumor suppressor that is critical for transmitting signals from transforming growth factor-beta and related ligands. SMAD4 plays a pivotal role in signal transduction of the transforming growth factor beta superfamily cytokines by mediating transcriptional activation of target genes.

### Overview

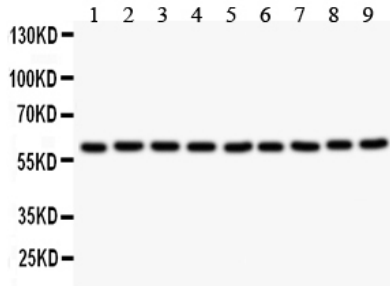
Product Name	Anti-Smad4 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Smad4 Antibody Picoband™ catalog # PB9397. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13485

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Smad4, identical to the related mouse and rat sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

## Anti-Smad4 Antibody Picoband™ (PB9397) Images



Anti-SMAD4 Picoband antibody, PB9397, Western blotting

All lanes: Anti SMAD4 (PB9397) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 50ug

Lane 2: Mouse Brain Tissue Lysate at 50ug

Lane 3: Rat Skeletal Muscle Tissue Lysate at 50ug

Lane 4: Mouse Skeletal Muscle Tissue Lysate at 50ug

Lane 5: U87 Whole Cell Lysate at 40ug

Lane 6: Human Placenta Tissue Lysate at 50ug

Lane 7: HT1080 Whole Cell Lysate at 40ug

Lane 8: HELA Whole Cell Lysate at 40ug

Lane 9: NEURO Whole Cell Lysate at 40ug

Predicted bind size: 60KD

Observed bind size: 60KD

## 7 Publications Citing This Product

1. PubMed ID: -, Xu,R.,Zhou,X., Li,Y.,Ren,L.,& He,X. (2021).MicroRNA-181a promotes epithelial-mesenchymal transition in esophageal squamous cell carcinoma via the TGF-beta/Smad pathway.Molecular Medicine Reports,23,316. <https://doi.org/10.3892/mmr.2021.11955>

2. PubMed ID: 25371235, TGFβ2 regulates the proliferation of lung adenocarcinoma cells by inhibiting PIK3R3 expression

3. PubMed ID: 19824107, Emodin protects rat liver from CCl4-induced fibrogenesis via inhibition of hepatic stellate cells activation

Visit [bosterbio.com/anti-smad4-picoband-trade-antibody-pb9397-boster.html](https://www.bosterbio.com/anti-smad4-picoband-trade-antibody-pb9397-boster.html) to see all 7 publications.

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