BOSTER BIOLOGICAL TECHNOLOGY
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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 Darfwin 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.

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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. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

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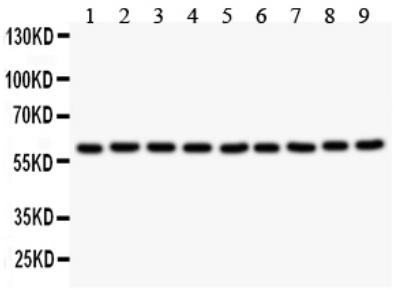
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Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Smad4, identical to the related mouse and rat sequences.
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	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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Anti-Smad4 Antibody Picoband® (PB9397) Images



Anti-SMAD4 Picoband antibody, PB9397, Western blottingAll lanes: Anti SMAD4 (PB9397) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: Rat Skeletal Muscle Tissue Lysate at 50ugLane 4: Mouse Skeletal Muscle Tissue Lysate at 50ugLane 5: U87 Whole Cell Lysate at 40ugLane 6: Human Placenta Tissue Lysate at 50ugLane 7: HT1080 Whole Cell Lysate at 40ugLane 8: HELA Whole Cell Lysate at 40ugLane 9: NEURO Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved 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: 24746831, Tang Y, Li Y, Yu H, Gao C, Liu L, Chen S, Xing M, Liu L, Yao P. J Nutr Biochem. 2014 Jun;25(6):675-82. Doi: 10.1016/J.Jnutbio.2014.02.009. Epub 2014 Mar 19. Quercetin Prevents Ethanol-Induced Iron Overload By Regulating Hepcidin Through The Bmp6/S...

3. PubMed ID: 22549392, Chen Wh, Kong Xy, Wan R, Xiao Cs, Li L, Wang Zy, Lin N, Wang Hm. Chin J Integr Med. 2012 May;18(5):378-84. Doi: 10.1007/S11655-012-1086-Y. Epub 2012 May 2. Effects Of Huogu I Formula (I) On Correlated Factors Of Bone Regeneration In Chickens With ...

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Anti-Smad4 Antibody

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