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Anti-SMAD1 Antibody Picoband™

Catalog Number: PB9395

About SMAD1

SMADs are proteins that modulate the activity of transforming growth factor beta ligands. The SMADs, often in complex with other SMADs/CoSMAD, act as transcription factors that regulate the expression of certain genes. It was concluded that targeted ubiquitination of SMADs may serve to control both embryonic development and a wide variety of cellular responses to TGF-beta signals. R-Smads or receptor regulated Smads are a class of proteins that include SMAD1, SMAD2, SMAD3, SMAD5, and SMAD8. In response to signals by the TGF-beta superfamily of ligands these proteins associate with receptor kinases and are phosphorylated at an SSXS motif at their extreme C-terminus. These proteins then typically bind to the common mediator Smad or co-SMAD SMAD4.

Overview

Product Name	Anti-SMAD1 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SMAD1 Antibody Picoband™ catalog # PB9395. 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 Na2HPO4, 0.05mg NaN3.
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	Q15797

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SMAD1, different from the related mouse sequence by two amino acids, and from the related rat sequence by five amino acids.
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

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

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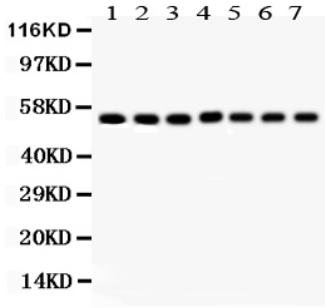
Anti-SMAD1 Antibody Picoband™ (PB9395) Images



Anti-SMAD1 Picoband antibody, PB9395, Western blotting
All lanes: Anti SMAD1 (PB9395) at 0.5ug/ml
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug
Lane 2: Mouse Cardiac Muscle Tissue Lysate at 50ug
Lane 3: Rat Skeletal Muscle Tissue Lysate at 50ug
Lane 4: Mouse Skeletal Muscle Tissue Lysate at 50ug
Lane 5: 293T Whole Cell Lysate at 40ug
Lane 6: MCF-7 Whole Cell Lysate at 40ug
Lane 7: HELA Whole Cell Lysate at 40ug
Predicted bind size: 52KD
Observed bind size: 52KD

6 Publications Citing This Product

1. PubMed ID: 10.3389/fphar.2021.643489, Inhibition of TMEM16A by Natural Product Silibinin: Potential Lead Compounds for Treatment of Lung Adenocarcinoma

2. PubMed ID: 25820389, Xu T, Ni Mm, Huang C, Meng Xm, He Yh, Zhang L, Li J. Inflammation. 2015 Oct;38(5):1794-804. Doi: 10.1007/S10753-015-0157-6. Nlrc5 Mediates Il-6 And Il-1?? Secretion In Lx-2 Cells And Modulated By The Nf-??b/Smad3 Pathway.

3. 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...

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