

Anti-Smad3 Antibody Picoband™

Catalog Number: PB9396

About SMAD3

Mothers against decapentaplegic homolog 3 also known as SMAD family member 3 or SMAD3 is a protein that in humans is encoded by the SMAD3 gene. SMAD3 is a member of the SMAD family of proteins. It is located in 15q22.33. And it mediates the signals from the transforming growth factor beta (TGF-beta) super family ligands that regulate cell proliferation, differentiation and death. Based on its essential role in TGF beta signaling pathway, SMAD3 has been related with tumor growth in cancer development.

Overview

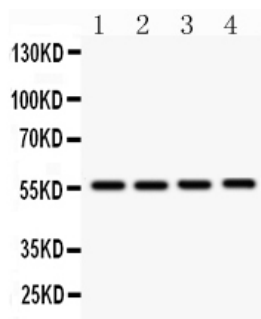
Product Name	Anti-Smad3 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Smad3 Antibody Picoband™ catalog # PB9396. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg 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	P84022

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Smad3, 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	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

Anti-Smad3 Antibody Picoband™ (PB9396) Images



Anti-SMAD3 Picoband antibody, PB9396, Western blotting

All lanes: Anti SMAD3 (PB9396) at 0.5ug/ml

Lane 1: U87 Whole Cell Lysate at 40ug

Lane 2: Human Placenta Tissue Lysate at 50ug

Lane 3: PANC Whole Cell Lysate at 40ug

Lane 4: HELA Whole Cell Lysate at 40ug

Predicted bind size: 48KD

Observed bind size: 56KD

6 Publications Citing This Product

1. PubMed ID: -, Huanyue Cui,Xueying Liu,Jin Zhang,Ke Zhang,Dahong Yao,Shi Dong,Shushu Feng,Lu Yang, Yuyao Li,Hangyu Wang,Jian Huang,Jinhui Wang,"Rhodiola rosea L. Attenuates Cigarette Smoke and Lipopolysaccharide-Induced COPD in Rats via Inflammation Inhibition and Antioxidant and Antifibrosis Pathways",Evidence-Based Complementary and Alternative Medicine,vol. 2021,Article ID 6103158,18 pages,2021.<https://doi.org/10.1155/2021/6103158>

2. PubMed ID: 32826874, Hong L,Li F,Tang C,Li L,Sun L,Li X,Zhu L.Semaphorin 7A promotes endothelial to mesenchymal transition through ATF3 mediated TGF-beta2/Smad signaling.Cell Death Dis.2020 Aug 10;11(8):695.doi:10.1038/s41419-020-02818-x.PMID:32826874;PMCID:PMC7442651.

3. 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.

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