

Anti-SMAD2/3 Antibody

Catalog Number: PA1073-2

About SMAD2

SMAD proteins transmit signals from transmembrane serine/threonine kinase receptors to the nucleus. Transforming growth factor (TGF)-beta stimulation leads to phosphorylation and activation of Smad2 and Smad3, which form complexes with Smad4 that accumulate in the nucleus and regulate transcription of target genes. Smad2 and Smad3 share highly homology. SMAD2/SMAD3 signal transduction appeared to be important in the regulation of muscle-specific genes. SMAD proteins transmit signals from transmembrane serine/threonine kinase receptors to the nucleus. Smad2 is a 58 kDa member of a family of proteins involved in cell proliferation, differentiation and development. Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development.

Overview

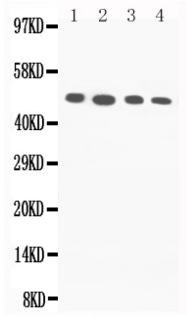
Product Name	Anti-SMAD2/3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SMAD2/3 Antibody catalog # PA1073-2. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	Q15796

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SMAD2/3, 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
Form	Lyophilized

Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/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:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-SMAD2/3 Antibody (PA1073-2) Images



All lanes: Anti-SMAD2/3(PA1073-2) at 0.5ug/ml
Lane 1: SMMC Whole Cell Lysate at 40ug
Lane 2: U87 Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 48KD
Observed bind size: 48KD

3 Publications Citing This Product

1. 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.
2. PubMed ID: 21693312, Tao Y, Hu L, Li S, Liu Q, Wu X, Li D, Fu P, Wei D, Luo Z. Transplant Proc. 2011 Jun;43(5):1985-8. Doi: 10.1016/J.Transproceed.2011.01.160. Tranilast Prevents The Progression Of Chronic Cyclosporine Nephrotoxicity Through Regulation Of Transforming...
3. PubMed ID: 25356121, Shi K, Jiang J, Ma T, Xie J, Duan L, Chen R, Song P, Yu Z, Liu C, Zhu Q, Zheng J. Int J Clin Exp Med. 2014 Sep 15;7(9):2645-50. Ecollection 2014. Dexamethasone Attenuates Bleomycin-Induced Lung Fibrosis In Mice Through Tgf-??, Smad3 And Jak-Stat P...

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