

Datasheet for ABIN747023
anti-Smad2/3 antibody (AA 30-80)

3 Images

11 Publications

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Overview

Quantity:	100 µL
Target:	Smad2/3 (SMAD2/3)
Binding Specificity:	AA 30-80
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Smad2/3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Smad2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Cow, Chicken
Purification:	Purified by Protein A.

Target Details

Target:	Smad2/3 (SMAD2/3)
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Target Details

Alternative Name:	Smad2/3 (SMAD2/3 Products)
Background:	<p>Synonyms: Mothers against decapentaplegic homolog 2, MAD homolog 2, Mothers against DPP homolog 2, JV18-1, Mad-related protein 2, hMAD-2, SMAD family member 2, SMAD 2, Smad2, hSMAD2, SMAD2, MADH2, MADR2, SMAD2_HUMAN.</p> <p>Background: Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.</p>
Gene ID:	4087
UniProt:	Q15796

Application Details

Application Notes:	WB 1:100-1000 IHC-P 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in: Chen, Qin, Zhao, Yan, Ye, Ren, Wang, Yang, Heng, Zheng, Liu: "Pulsed Magnetic Field Stimuli Can Promote Chondrogenic Differentiation of Superparamagnetic Iron Oxide Nanoparticles-Labeled Mesenchymal Stem Cells in Rats." in: **Journal of biomedical nanotechnology**, Vol. 14, Issue 12, pp. 2135-2145, (2019) ([PubMed](#)).

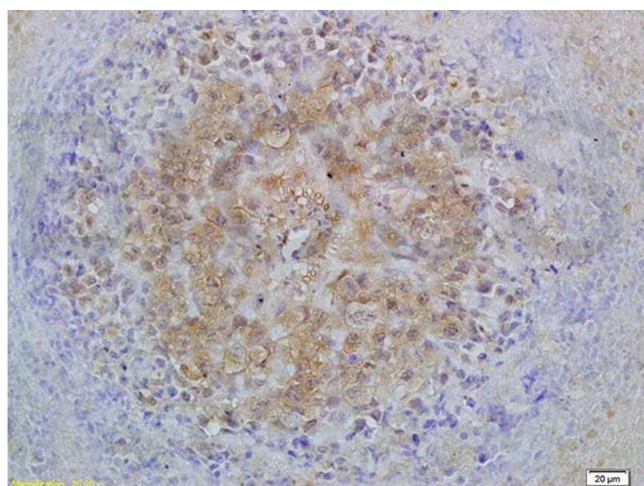
Zhou, Yang, Shao, Wang, Yang, Huang, Zhou, Jiang, Yang: "Effects of Zearalenone Exposure on the TGF- β 1/Smad3 Signaling Pathway and the Expression of Proliferation or Apoptosis Related Genes of Post-Weaning Gilts." in: **Toxins**, Vol. 10, Issue 2, (2019) ([PubMed](#)).

Zhou, Zhang, Gao, Tan, Zheng, Zhao, Zhang: "Induced pluripotent stem cell-conditioned medium suppresses pulmonary fibroblast-to-myofibroblast differentiation via the inhibition of TGF- β 1/Smad pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 1, pp. 473-484, (2018) ([PubMed](#)).

Liu, Zou, Li, Wang, Wang, Hao, Ke, Li: "RUNX3 modulates hypoxia-induced endothelial-to-mesenchymal transition of human cardiac microvascular endothelial cells." in: **International journal of molecular medicine**, Vol. 40, Issue 1, pp. 65-74, (2017) ([PubMed](#)).

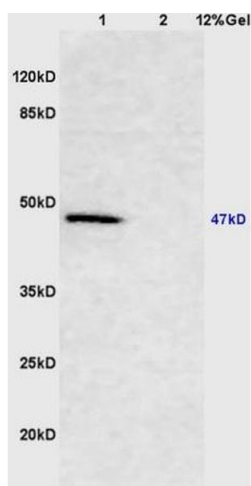
There are more publications referencing this product on: [Product page](#)

Images



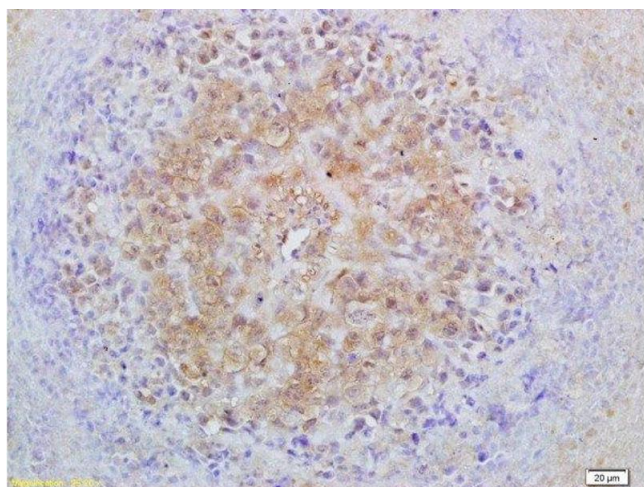
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse lymphoma labeled with Anti-Smad3 Polyclonal Antibody, Unconjugated (ABIN747023) at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. Lane 1: mouse brain lysates Lane 2: mouse kidney lysates probed with Anti Smad3 Polyclonal Antibody, Unconjugated (ABIN747023) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 47kD. Observed band size: 47kD.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded mouse lymphoma labeled with Anti-Smad3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining