

Datasheet for ABIN670206

anti-SMAD7 antibody (AA 1-100)

5 Images

3 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	SMAD7
Binding Specificity:	AA 1-100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Smad7
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig
Purification:	Purified by Protein A.

Target Details

Target:	SMAD7
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Target Details

Alternative Name:	Smad7 (SMAD7 Products)
Background:	<p>Synonyms: CRCS3, MADH7, MADH8, Mothers against decapentaplegic homolog 7, MAD homolog 7, Mothers against DPP homolog 7, Mothers against decapentaplegic homolog 8, MAD homolog 8, Mothers against DPP homolog 8, SMAD family member 7, SMAD 7, Smad7, hSMAD7</p> <p>Background: Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members, has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator (By similarity).</p>
Molecular Weight:	46kDa
Gene ID:	4092
UniProt:	O15105
Pathways:	Interferon-gamma Pathway , Cell-Cell Junction Organization

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 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.

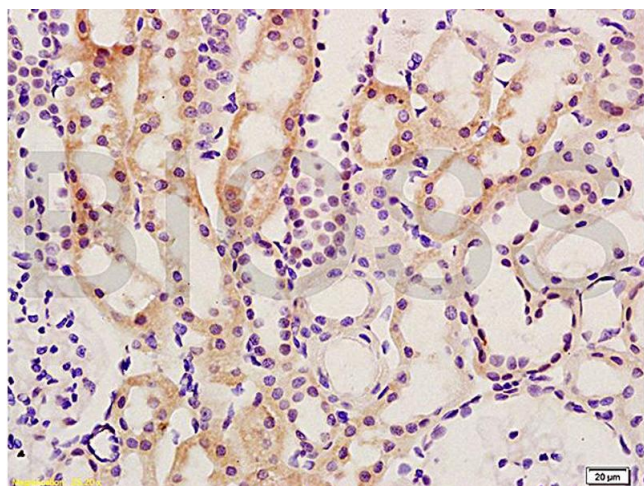
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: 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

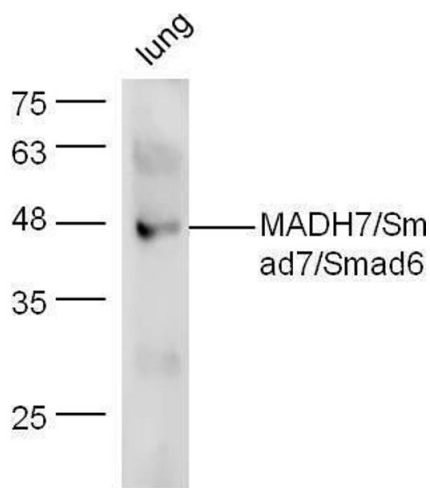
- Product cited in:
- Yang, Ding, Xu, Chen, Ding: "MicroRNA-15a inhibition protects against hypoxia/reoxygenation-induced apoptosis of cardiomyocytes by targeting mothers against decapentaplegic homolog 7." in: **Molecular medicine reports**, Vol. 15, Issue 6, pp. 3699-3705, (2017) ([PubMed](#)).
- Liu, Shi, Yang, Zhao, Du, Zou, Yu: "Synchronous alteration pattern between serine-threonine kinase receptor-associated protein and Smad7 in pilocarpine-induced rats of epilepsy." in: **Synapse (New York, N.Y.)**, Vol. 68, Issue 6, pp. 275-82, (2014) ([PubMed](#)).
- Kou, Hu, Yao, Wang, Shen, Kang, Hong: "Transforming growth factor- β 1 promotes Treg commitment in nasal polyposis after intranasal steroid treatment." in: **Inflammation research : official journal of the European Histamine Research Society ... [et al.]**, Vol. 62, Issue 3, pp. 283-9, (2013) ([PubMed](#)).

Images



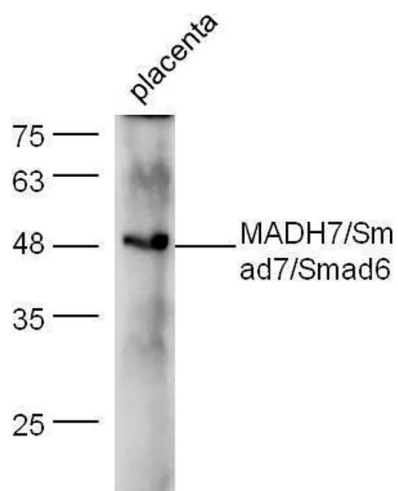
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat kidney tissue labeled with Anti-Smad7/Smad6 Polyclonal Antibody (ABIN670206), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. Mouse lung lysate probed with Anti-Smad7 + Smad6 Polyclonal Antibody at 1:5000 90min in 37°C.



Western Blotting

Image 3. Mouse placenta lysate probed with Anti-Smad7 + Smad6 Polyclonal Antibody at 1:5000 90min in 37°C.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN670206.