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Datasheet for ABIN6265173 anti-SMAD3 antibody (C-Term)

4 Images

2 Publications



Overview

Quantity:	100 µL
Target:	SMAD3
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Smad3, corresponding to a region within C-terminal amino acids.
Isotype:	lgG
Specificity:	Smad3 Antibody detects endogenous levels of total Smad3.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

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SMAD3

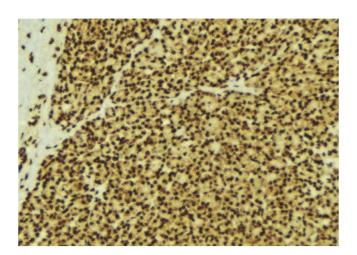
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6265173 | 01/16/2024 | Copyright antibodies-online. All rights reserved.

Target Details		
Alternative Name:	SMAD3 (SMAD3 Products)	
Background:	Description: 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 SMAD3/SMAD4 complex, activates	
	transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to	
	regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably	
	by modulating both growth and migration of primary keratinocytes and by altering the TGF-	
	mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-	
	sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone	
	fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-	
	3-3 protein YWHAQ which acts as a negative regulator.	
	Gene: SMAD3	
Molecular Weight:	58kDa	
Gene ID:	4088	
UniProt:	P84022	
Pathways:	Cell Division Cycle, Chromatin Binding, Cell-Cell Junction Organization, Positive Regulation of	
	Endopeptidase Activity, Autophagy	
Application Details		
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide 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.	

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Handling	
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months
Publications	
Product cited in:	Ren, Li, Xia, Guo, Zhai, Jin, Che, Gao, Duan, Ma, Huang, Huang, Lei: "Arginine inhibits the malignant transformation induced by interferon-gamma through the NF-κB-GCN2/eIF2α signaling pathway in mammary epithelial cells in vitro and in vivo." in: Experimental cell research , Vol. 368, Issue 2, pp. 236-247, (2018) (PubMed).
	Zhao, Wu, Chen, Ji, Zheng: "TGF- β 1 and connexin-43 expression in neurogenic bladder from

Images

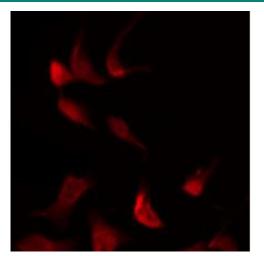


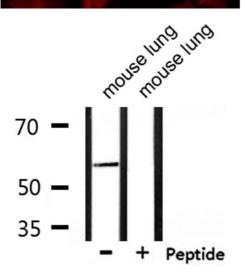
Immunohistochemistry

rats with sacral spinal cord injury." in: Neurourology and urodynamics, (2018) (PubMed).

Image 1. ABIN6269300 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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Immunofluorescence (fixed cells)

Image 2. ABIN6269300 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 3. Western blot analysis of extracts from mouse lung, using Smad3 Antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6265173.