

Product Datasheet

Smad7 Antibody - Azide Free

NB100-56688

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 4

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NB100-56688

Smad7 Antibody - Azide Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein G purified
Buffer	Sterile - filtered PBS

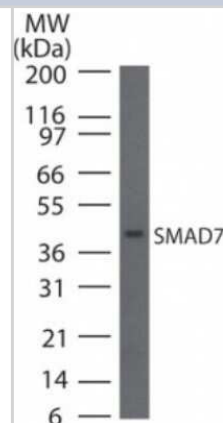
Product Description	
Host	Rabbit
Gene ID	4092
Gene Symbol	SMAD7
Species	Human, Mouse, Sheep
Immunogen	This antibody was raised against two peptides made from within amino acids 10 and 50 of human SMAD7. This sequence is 100% or highly conserved between human and multiple species.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 4 - 6 ug/ml, Immunohistochemistry-Paraffin

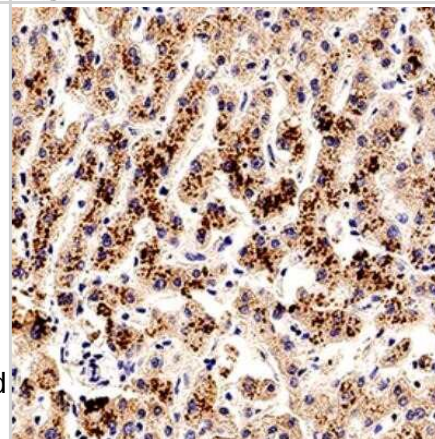


Images

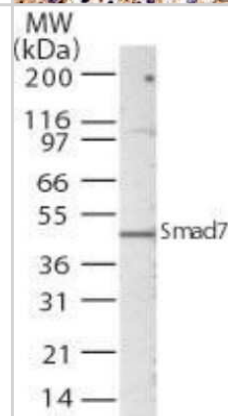
Western Blot: Smad7 Antibody - Azide Free [NB100-56688] - Analysis using SMAD7 antibody. Lysate from HepG2 cells probed with SMAD7 antibody. Image using the standard format of this product.



Immunohistochemistry-Paraffin: Smad7 Antibody - Azide Free [NB100-56688] - IHC analysis of a formalin fixed paraffin-embedded (FFPE) human liver using Smad7 antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic staining of Smad7 was observed. Staining was performed by Histowiz. Image using the standard format of this product.



Western Blot: Smad7 Antibody - Azide Free [NB100-56688] - Analysis using SMAD7 antibody. Lysate from A549 cells probed with SMAD7 antibody at 5 ug/ml.



Publications

Kayalar O, Oztay F. Retinoic acid induced repair in the lung of adult hyperoxic mice, reducing transforming growth factor-B1 (TGF-B1) mediated abnormal alterations. *Acta Histochem.* [PMID: 24576683] (WB, Mouse)

Details:

Citation using the Azide Free form of this antibody.

Kleiter Ingo, Pedre Xiomara, Mueller Andre M et al. Inhibition of Smad7, a negative regulator of TGF-beta signaling, suppresses autoimmune encephalomyelitis. *J Neuroimmunol.* 2007-07-01 [PMID: 17553571]

Lonn P, Vanlandewijck M, Raja E et al. Transcriptional induction of salt-inducible kinase 1 by transforming growth factor B leads to negative regulation of type I receptor signaling in cooperation with the Smurf2 ubiquitin ligase. *J Biol Chem.* 2012-04-13 [PMID: 22378783]

Kidd M, Modlin IM, Pfragner R et al. Small bowel carcinoid (enterochromaffin cell) neoplasia exhibits transforming growth factor-beta1-mediated regulatory abnormalities including up-regulation of C-Myc and MTA1. *Cancer.* 2007-06-15 [PMID: 17469181]

Details:

WB: SMAD4 (IMG-565) and B-actin (IMG-531). Neoplastic kRJ-I enterochromaffin (EC) cells stimulated with growth factor-B1 (TGFB1), Fig 4.





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Products Related to NB100-56688

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-24710PEP	Smad7 Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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