

Product Datasheet

Smad4 Antibody - BSA Free

NBP2-24951

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-24951

Smad4 Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description

Description	Novus Biologicals Rabbit Smad4 Antibody - BSA Free (NBP2-24951) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Smad4 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4089
Gene Symbol	SMAD4
Species	Human, Mouse, Rat, Bovine, Monkey
Reactivity Notes	Bovine reactivity reported from a verified customer review.
Immunogen	This antibody was developed against synthetic peptides corresponding to amino acids 186-223 and amino acids 509-544 of human SMAD4 (GenBank Accession No. NP_005350.1). These peptide sequences are specific to SMAD4, and have high homology to SMAD4 in multiple species.

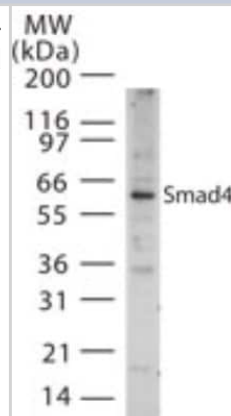
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Immunohistochemistry 1:200, Immunocytochemistry/Immunofluorescence 1 - 5 ug/mL, Immunohistochemistry-Paraffin 1:200

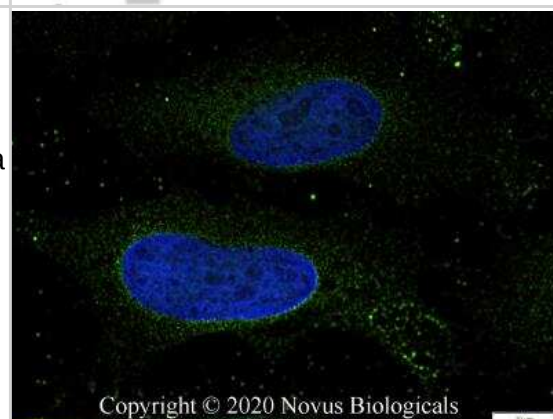


Images

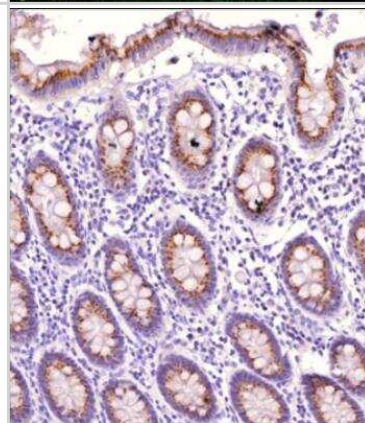
Western Blot: Smad4 Antibody [NBP2-24951] - SMAD4 Antibody [NBP2-24951] - Analysis using SMAD4 antibody. Lysate from A549 cells probed with SMAD4 antibody at 2 ug/mL.



Immunocytochemistry/Immunofluorescence: Smad4 Antibody [NBP2-24951] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-SMAD4 Antibody NBP2-24951 at 2 ug/mL overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Immunohistochemistry-Paraffin: Smad4 Antibody [NBP2-24951] - Analysis of a FFPE tissue section of human colon using 1:200 dilution of SMAD4 antibody. The staining was developed using HRP labeled anti-rabbit secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. Apical cytoplasmic staining was observed in both glandular and epithelial cells.



Publications

Tumelty KE, Higginson-Scott N, Fan X et al. Identification of direct negative crosstalk between the SLIT2 and Bone Morphogenetic Protein-Gremlin signaling pathways J. Biol. Chem. 2018-01-09 [PMID: 29317497] (WB, Human)

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] (WB)

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 NBP2-24951

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-24951PEP	Smad4 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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