

# Product Datasheet

## Smad3 Antibody - BSA Free NB100-56479

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 5 Publications: 8**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB100-56479](http://www.novusbio.com/NB100-56479)

Updated 2/21/2025 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB100-56479](http://www.novusbio.com/reviews/destination/NB100-56479)



**NB100-56479**

Smad3 Antibody - BSA Free

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

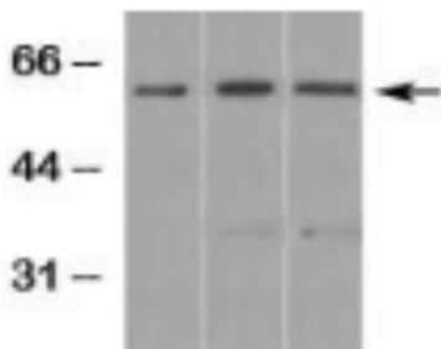
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	4088
<b>Gene Symbol</b>	SMAD3
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Primate
<b>Immunogen</b>	A portion of amino acids 100-150 of human SMAD3 was used as the immunogen.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 0.5 - 2 ug/mL, Simple Western 1:50, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 5 ug/mL

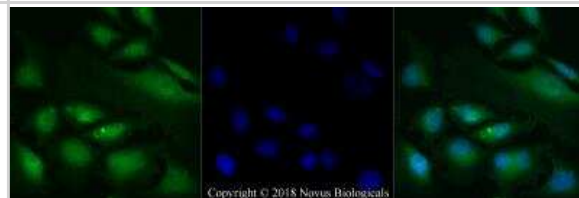


## Images

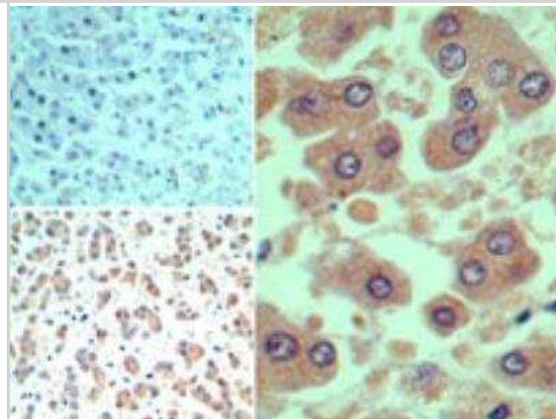
Western Blot: Smad3 Antibody [NB100-56479] - Analysis in human fibroblast and HeLa whole cell lysates. Untreated lysates show a band around 55 kDa. 1:1000 dilution, 1 hour blocking in milk 5%. WB image submitted by a verified customer review.



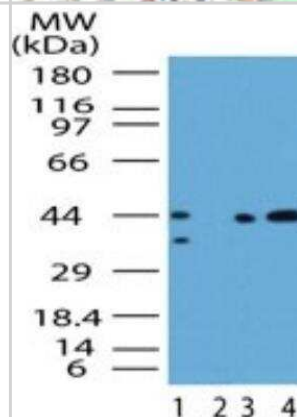
Immunocytochemistry/Immunofluorescence: Smad3 Antibody [NB100-56479] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton X-100. The cells were incubated with anti-Smad3 at 10 ug/mL overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: Smad3 Antibody [NB100-56479] - Human liver tissue probed with SMAD3 antibody (bottom left, right) and isotype control antibody (top left) at 10 ug/mL.



Western Blot: Smad3 Antibody [NB100-56479] - Analysis using SMAD3 antibody. Lysate from human liver in the 1) absence and 2) presence of immunizing peptide, 3) mouse liver and 4) rat liver probed with SMAD3 antibody at 0.5 ug/mL. I goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



## Publications

Salemi S, Schori L, Gerwinn T et al. Myostatin Overexpression and Smad Pathway in Detrusor Derived from Pediatric Patients with End-Stage Lower Urinary Tract Dysfunction International Journal of Molecular Sciences 2023-02-24 [PMID: 36901894]

Smith SS, Chu D, Qu T et al. Species-specific sensitivity to TGF $\beta$  signaling and changes to the Mmp13 promoter underlie avian jaw development and evolution eLife 2022-06-06 [PMID: 35666955] (WB)

Chen B, Li R, Hernandez S et al. Differential effects of Smad2 and Smad3 in regulation of macrophage phenotype and function in the infarcted myocardium Journal of Molecular and Cellular Cardiology 2022-07-01 [PMID: 35780861]

Wu X, Wang H, Chen H et al. Overexpression of smad7 inhibits the TGF-beta/Smad signaling pathway and EMT in NPHP1-defective MDCK cells Biochem Biophys Res Commun 2021-12-10 [PMID: 34689106] (WB, ICC/IF, Canine)

Li Y, Zhao S, Xu S et al. Palmitoylethanolamide (PEA) reduces postoperative adhesions after experimental strabismus surgery in rabbits by suppressing canonical and non-canonical TGF beta signaling through PPAR alpha Biochemical pharmacology 2020-12-29 [PMID: 33385371] (WB, Mouse)

Chen SM, Hsu LJ, Lee HL et al. Lactobacillus Attenuate the Progression of Pancreatic Cancer Promoted by Porphyromonas Gingivalis in K-rasG12D Transgenic Mice Cancers (Basel) 2020-11-26 [PMID: 33255941] (IHC-P, Mouse)

Details:  
Pancreas samples from transgenic mice exposed to *P. gingivalis* underwent immunohistochemical analysis.

Sivadas VP, George NA, Kattoor J, Kannan S. Novel mutations and expression alterations in SMAD3/TGFBR2 genes in oral carcinoma correlate with poor prognosis. Genes Chromosomes Cancer 2013-11-01 [PMID: 23913824] (WB, Human)

Ruebel KH, Leontovich AA, Tanizaki Y et al. Effects of TGFbeta1 on gene expression in the HP75 human pituitary tumor cell line identified by gene expression profiling. Endocrine. 2008-02-01 [PMID: 18401765] (WB, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-56479**

---

NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

---

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB100-56479](http://www.novusbio.com/reviews/submit/NB100-56479)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

