

# Product Datasheet

## TGF-beta 1 Antibody - BSA Free NBP1-80289

Unit Size: 100 ul

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

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**NBP1-80289**

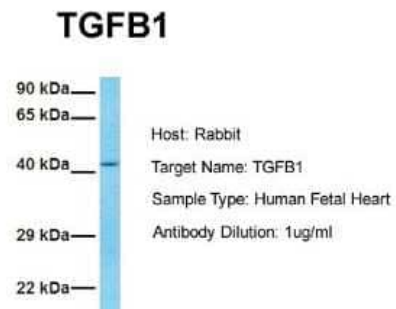
TGF-beta 1 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	43 kDa
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	7040
Gene Symbol	TGFB1
Species	Human, Mouse, Porcine
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID: 23616520).
Immunogen	Synthetic peptide directed towards the middle region of mouse TGFB1. Peptide sequence DTPEWLSFDVTGVVRQWLNQGDGIQGFRFSAHCSCDSKDNKLHVEINGIS. The peptide sequence for this immunogen was taken from within the described region.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Imaging Mass Cytometry
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 5-10 ug/ml, Immunohistochemistry-Paraffin 5-10 ug/ml, Imaging Mass Cytometry
Application Notes	This TGF-beta 1 Antibody is validated for Imaging Mass Cytometry from a verified customer review.

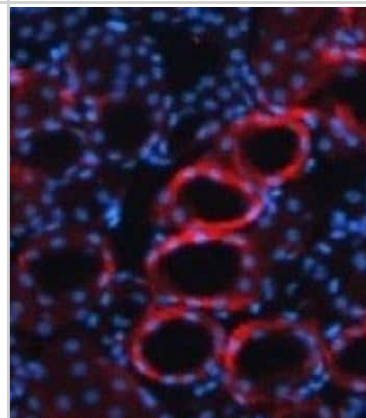


## Images

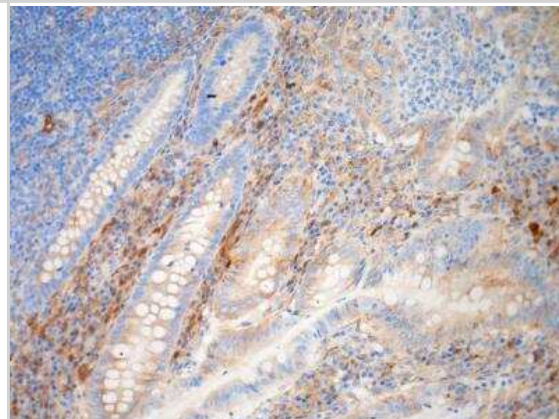
Western Blot: TGF-beta 1 Antibody [NBP1-80289] - Sample Tissue: Human Fetal Heart. Antibody Dilution: 1.0ug/ml



Immunocytochemistry/Immunofluorescence: TGF-beta 1 Antibody [NBP1-80289] - Mouse kidney (red fluorescence). Nuclei were stained with DAPI (blue fluorescence). Working dilutions: 5-10 ug/ml



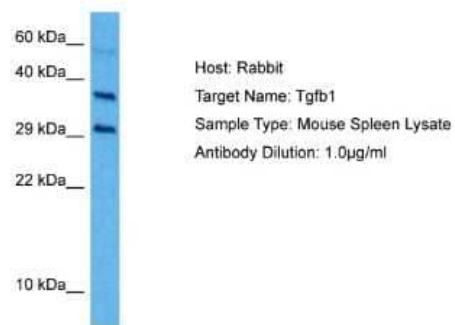
Immunohistochemistry-Paraffin: TGF-beta 1 Antibody [NBP1-80289] - Human Appendix FFPE tissue section stained with TGF-beta 1 antibody. IHC-P image submitted by a verified customer review.



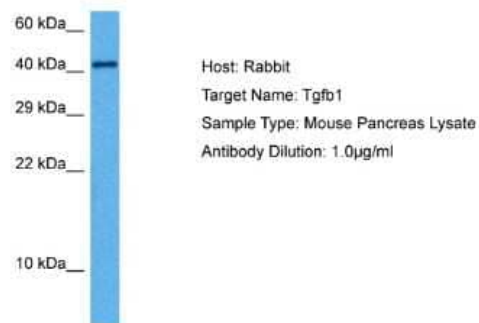
Western Blot: TGF-beta 1 Antibody [NBP1-80289] - Antibody Titration: 0.2-1 ug/ml or 1:5000 to 1:1000 Dilution. SP2/0 cell lysate.



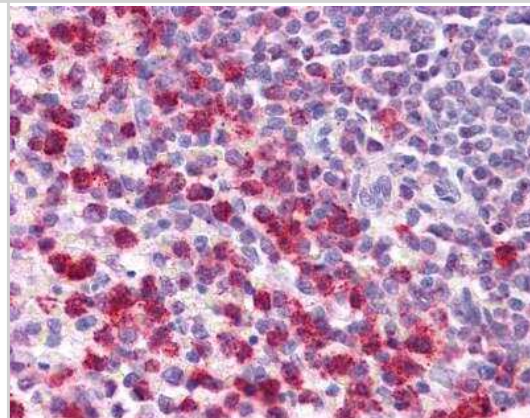
Western Blot: TGF-beta 1 Antibody [NBP1-80289] - Sample Tissue: Mouse Spleen. Antibody Dilution: 1ug/ml



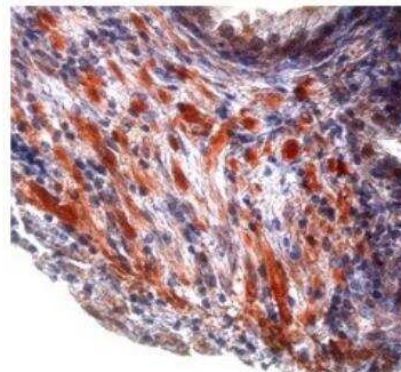
Western Blot: TGF-beta 1 Antibody [NBP1-80289] - Sample Tissue: Mouse Pancreas. Antibody Dilution: 1ug/ml



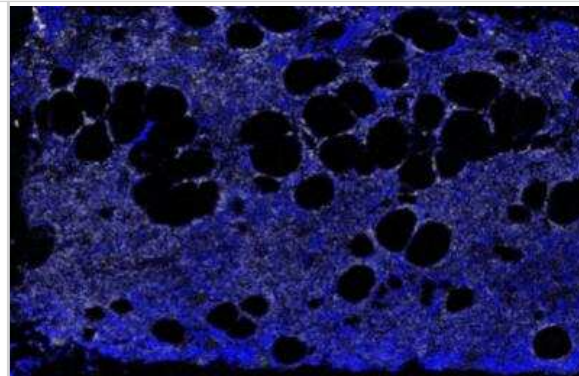
Immunohistochemistry-Paraffin: TGF-beta 1 Antibody [NBP1-80289] - Human Spleen Tissue, 5 ug/ml.



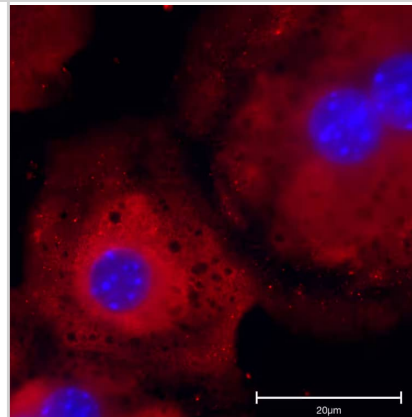
Immunohistochemistry-Paraffin: TGF-beta 1 Antibody [NBP1-80289] - Human prostate cancer tissue was detected using RP/AEC red color stain. Working dilutions: 5-10 ug/ml.



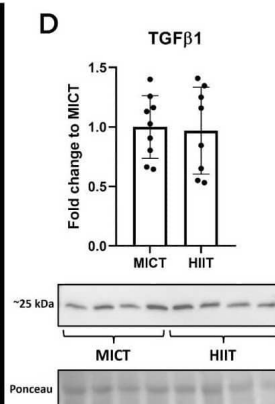
Imaging Mass Cytometry: TGF-beta 1 Antibody [NBP1-80289] - Human bone marrow FFPE tissue sections. DNA in blue, TGF-beta 1 antibody staining in white. IMC image submitted by a verified customer review.



Immunocytochemistry/Immunofluorescence: Rabbit Polyclonal TGF-beta 1 Antibody [NBP1-80289] - Mice hepatocytes stained with TGF-beta 1 Antibody. Image from a verified customer review.



Effects of MICT and HIIT on the liver. (A) Representative histological images stained with Picro Sirius Red at 10× and 20× for (A) MICT group and (B) HIIT group. Arrows indicate collagen accumulation points. (C) Collagen 1 and (D) transforming growth factor (TGF) β1 and their representative blots below its respective graph with its membrane stained with Ponceau S used as loading control. Data are presented as mean  $\pm$  SD. \*:  $p < 0.05$ . Each dot represents a participant. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/2077-0383/13/11/3273>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Yang JH, Ku SK, Cho ILJ et al. Neoagarooligosaccharide Protects against Hepatic Fibrosis via Inhibition of TGF- $\beta$ /Smad Signaling Pathway International Journal of Molecular Sciences 2021-02-18 [PMID: 33670808] (Western Blot, Porcine)

Nordquist EM, Dutta P, Kodigepalli KM et al. Tgf $\beta$ 1-Cthrc1 Signaling Plays an Important Role in the Short-Term Reparative Response to Heart Valve Endothelial Injury Arteriosclerosis, Thrombosis, and Vascular Biology 2021-12-01 [PMID: 34645278] (Western Blot, Porcine)

Bashir AZ. Cathepsin L in unstable plaques Archives of Medical Science – Atherosclerotic Diseases 2020-05-21 [PMID: 32529107] (Western Blot, Porcine)

Liu L, Gao J, Tang Y et al. Increased expression of the P2Y(12) receptor is involved in the failure of autogenous arteriovenous fistula caused by stenosis Ren Fail 2023-11-23 [PMID: 38532720]

Xu M, Tan J, Zhu L et al. Palmitoyltransferase ZDHHC3 Aggravates Nonalcoholic Steatohepatitis by Targeting S-Palmitoylated IRHOM2 Advanced science (Weinheim, Baden-Wuerttemberg, Germany) 2023-08-06 [PMID: 37544908]

Medipally A, Xiao M, Satoskar AA et al. N-acetylcysteine ameliorates hematuria-associated tubulointerstitial injury in 5/6 nephrectomy mice Physiological reports 2023-07-01 [PMID: 37419616] (IHC-P, Mouse)

Yamawaki Y, Parvez M, Wada Y et al. Environmental stress insults in 2HIT model synergistically produce disorder-associated microglia and macrophages in the cerebellum Research Square 2023-02-21 (IHC, Mouse)

Ma C, Wang L, Liao W et al. TGF- $\beta$  promotes stem-like T cells via enforcing their lymphoid tissue retention The Journal of experimental medicine 2022-10-03 [PMID: 35980385]

Yao G, Mo X, Yin C et al. A programmable and skin temperature-activated electromechanical synergistic dressing for effective wound healing Science advances 2022-01-28 [PMID: 35080981] (IF/IHC, Rat)

Nordquist EM Exploring Heart Valve Homeostasis and Repair Thesis 2021-01-01 (IHC-P, Mouse)

Chung S, Overstreet JM, Li Y et al. TGF- $\beta$  promotes fibrosis after severe acute kidney injury by enhancing renal macrophage infiltration. JCI Insight. 2018-11-02 [PMID: 30385721] (WB, Mouse)

Herrmann J, Wohlert C, Saguner AM et al. Primary proteasome inhibition results in cardiac dysfunction. Eur J Heart Fail 2013-04-24 [PMID: 23616520] (WB, Porcine)





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### **Products Related to NBP1-80289**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51925-0.05mg	Recombinant Mouse TGF-beta 1 His Protein

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### **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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