

# Product Datasheet

## TGF-beta Antibody (1D11.16.8) - BSA Free NBP2-45137-0.1mg

Unit Size: 0.1 mg

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

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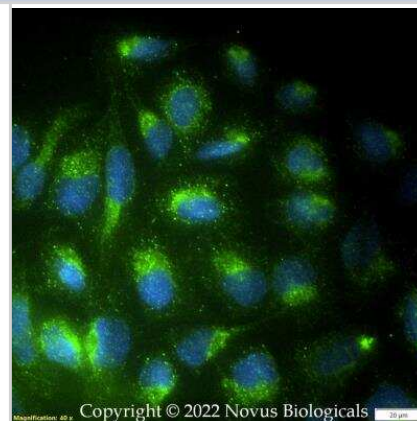
**NBP2-45137-0.1mg**

TGF-beta Antibody (1D11.16.8) - BSA Free

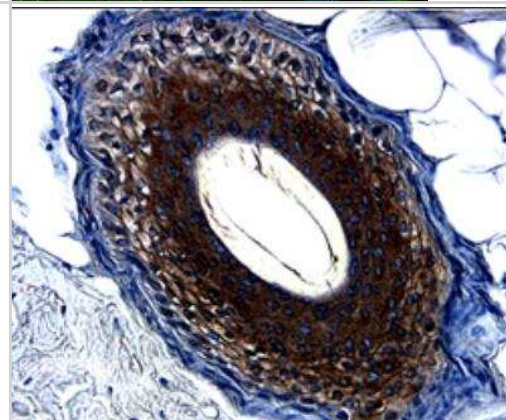
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1D11.16.8
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	13 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	7040
<b>Gene Symbol</b>	TGFB1
<b>Species</b>	Human, Mouse, Rat, Bovine, Canine, Hamster, Monkey
<b>Specificity/Sensitivity</b>	This MA b recognizes TGF beta 1, 2 and 3. Three TGF betas have been identified in mammals. TGFbeta1, TGFbeta2 and TGFbeta3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecules. Biologically active TGFbeta requires dimerization of the monomers (usually homodimers) and release of the latent peptide portion. Overall, the mature region of the TGFbeta3 protein has approximately 80% identity to the mature region of both TGFbeta1 and TGFbeta2. However, the NH2 terminals or precursor regions of their molecules share only 27% sequence identity. TGFbeta's inhibit the growth of epithelial cells and stimulate the growth of mesenchymal cells.
<b>Immunogen</b>	Bovine bone-derived TGF-beta 1 and TGF-beta 2
<b>Product Application Details</b>	
<b>Applications</b>	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, ELISA Capture (Matched Antibody Pair)
<b>Recommended Dilutions</b>	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 8-25 ug/ml, Immunohistochemistry-Paraffin 0.5 - 1.0ug/ml, Sandwich ELISA, ELISA Capture (Matched Antibody Pair)
<b>Application Notes</b>	Hu-chromosome location: 19q13.1 (beta1); 1q41 (beta2); 14q24 (beta3) For Cytokine Neutralization and Functional Assay, order Azide and BSA Free formulation (NBP2-47736)

## Images

**Immunocytochemistry/Immunofluorescence:** TGF-beta Antibody (1D11.16.8) - BSA Free [NBP2-45137] - U2OS cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with TGF-beta Antibody [1D11.16.8] (NBP2-45137) at 1ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



**Immunohistochemistry:** TGF-beta Antibody (1D11.16.8) [NBP2-45137] - TGF-beta was detected in immersion fixed paraffin-embedded human skin using 25 ug/mL Mouse Anti-TGF-beta Monoclonal Antibody (Clone 1D11.16.8) overnight at 4 degrees C. Tissues was stained using the Anti-Mouse HRP-DAB Cell and Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with Haematoxylin (blue).



## Publications

Chen W, Pilling D, Gomer RH The mRNA binding protein DDX3 mediates TGF- $\beta$ 1 upregulation of translation and promotes pulmonary fibrosis JCI insight 2023-02-23 [PMID: 36821384] (IHC-Fr, Mouse)

limuro Y, Yada A, Okada T et al. Cytoglobin-expressing cells in the splenic cords contribute to splenic fibrosis in cirrhotic patients Histol. Histopathol. 2020-09-18 [PMID: 32945524] (IF/IHC, IHC-P, Human)

Tashita C, Hoshi M, Hirata A et Al. Kynurenine plays an immunosuppressive role in 2,4,6-trinitrobenzene sulfate-induced colitis in mice World J. Gastroenterol. 2020-03-07 [PMID: 32206003] (IF/IHC, Mouse)

Scimeca M, Urbano N, Bonfiglio R et al. Breast osteoblast-like cells: a new biomarker for the management of breast cancer. Br. J. Cancer. 2018-10-17 [PMID: 30327566] (IHC-P, Human)



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### **Products Related to NBP2-45137-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
7754-BH-005/CF	TGF-beta 1 [Unconjugated]

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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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