## antibodies

### Datasheet for ABIN107740 anti-TGFB1 antibody

4 Images

1 Publication



### Overview

Quantity:	100 µg
Target:	TGFB1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA
Product Details	
Product Details Immunogen:	TGF beta 1 Antibody was prepared from whole rabbit serum produced by repeated
	TGF beta 1 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus
	immunizations with a synthetic peptide corresponding to amino acids near the amino terminus
Immunogen:	immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of the mature growth factor (112 amino acids in length).

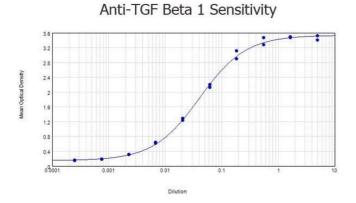
# Target:TGFB1Alternative Name:TGF beta 1 (TGFB1 Products)Background:TGF-beta-1 is a multifunctional cytokine that belongs to a superfamily of structurally related<br/>regulatory proteins, including three mammalian TGF-beta isoforms (TGF-beta-1, -beta-2, and -<br/>beta-3), activin/inhibins and bone morphogenetic proteins. The most abundant isoform, TGF-

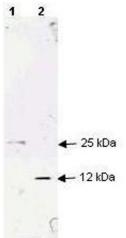
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN107740 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

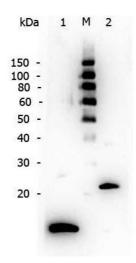
Preservative:	Sodium azide
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.43 mg/mL
Format:	Liquid
Handling	
Restrictions:	For Research Use only
	or extract.
	for reactivity should be optimized by the end user. Expect a band approximately 12.5 kDa in size corresponding to reduced mature TGFb1 by western blotting in the appropriate cell lysate
Application Notes:	TGF beta 1 Antibody has been tested for use in ELISA and western blotting. Specific conditions
Application Details	
	Cancer Immune Checkpoints
	Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus, Autophagy,
	Response, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber Development,
	Process, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune
Palliways.	Immunity, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector
	Bacterial Origin, Glycosaminoglycan Metabolic Process, Regulation of Leukocyte Mediated
Pathways:	EGFR Signaling Pathway, Dopaminergic Neurogenesis, Cellular Response to Molecule of
UniProt:	P01137
Gene ID:	7040, 339558
	beta 1 antibody
	progressive antibody, DPD1 antibody, LAP antibody, Latency-associated peptide antibody, TGF
	Synonyms: Camurati Engelmann disease antibody, CED antibody, Diaphyseal dysplasia 1
	produced by a wide variety of cell and tissue types during all stages of cell differentiation. TGF- beta-1 sources include platelets, bone and soft tissues, such as placenta and kidneys.
	has revealed that TGF-beta is actually a major growth inhibitor for most cell types. It is
	independent cell growth and changes in cell morphology of rat fibroblasts, subsequent research
	mouse differs by only one residue. Although originally defined by its ability to cause anchorage
	TGF-beta-1 is a highly conserved molecule; the amino acid sequence between human and
	beta-1, is a 25kDa homodimer composed of two 12.5 kDa subunits joined by disulfide bonds.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/5 | Product datasheet for ABIN107740 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Handling	
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Publications	
Product cited in:	Chen, Chemaly, Liang, Kho, Lee, Park, Altman, Schecter, Hajjar, Tarzami: "Effects of CXCR4 gene transfer on cardiac function after ischemia-reperfusion injury." in: <b>The American journal of</b> <b>pathology</b> , Vol. 176, Issue 4, pp. 1705-15, (2010) (PubMed).
	Neusser, Lindenmeyer, Moll, Segerer, Edenhofer, Sen, Stiehl, Kretzler, Gröne, Schlöndorff, Coher "Human nephrosclerosis triggers a hypoxia-related glomerulopathy." in: <b>The American journal</b> <b>of pathology</b> , Vol. 176, Issue 2, pp. 594-607, (2010) (PubMed).
	Kioi, Vogel, Schultz, Hoffman, Harsh, Brown: "Inhibition of vasculogenesis, but not angiogenesis prevents the recurrence of glioblastoma after irradiation in mice." in: <b>The Journal of clinical</b> <b>investigation</b> , Vol. 120, Issue 3, pp. 694-705, (2010) (PubMed).
	Shyu, Lin, Yang, Tzeng, Pang, Yen, Li: "Functional recovery of stroke rats induced by granulocyte colony-stimulating factor-stimulated stem cells." in: <b>Circulation</b> , Vol. 110, Issue 13, pp. 1847-54 (2004) (PubMed).
	Petit, Szyper-Kravitz, Nagler, Lahav, Peled, Habler, Ponomaryov, Taichman, Arenzana-Seisdedos Fujii, Sandbank, Zipori, Lapidot: "G-CSF induces stem cell mobilization by decreasing bone marrow SDF-1 and up-regulating CXCR4." in: <b>Nature immunology</b> , Vol. 3, Issue 7, pp. 687-94, ( 2002) (PubMed).







### ELISA

**Image 1.** ELISA results of purified Rabbit anti-TGF Beta 1 Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µ g/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Peroxidase Substrate.

### Western Blotting

**Image 2.** Western blot analysis using Affinity Purified anti-TGF beta 1 antibody to detect human TGF beta 1. Each lane contains 250 ng of protein under non-reducing (lane 1) and reducing conditions (lane 2). Comparison to molecular weight markers (not shown) was used to estimate the indicated molecular weights. The blot was incubated with a 1:200 dilution of the antibody at room temperature for 1 h followed by detection using 800 labeled Goat-a-Rabbit IgG (H&L) diluted 1:2,500. 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

#### Western Blotting

**Image 3.** Western Blot of Rabbit anti-TGF Beta 1 antibody. Lane 1: Reduced recombinant TGF Beta 1. Lane 2: Ladder. Lane 3: Non-reduced recombinant TGF Beta 1. Load: 250 ng per lane. Primary antibody: TGF Beta 1 antibody at 1:200 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (ABIN925618). Predicted/Observed size: 12 kDa/25 kDa, 12

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/5 | Product datasheet for ABIN107740 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

kDa for reduced TGF Beta 1/25 kDa for non-reduced TGF Beta 1.

Please check the product details page for more images. Overall 4 images are available for ABIN107740.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 5/5 | Product datasheet for ABIN107740 | 09/12/2023 | Copyright antibodies-online. All rights reserved.