

Anti-TGF beta 1 TGFB1 Antibody

Catalog Number: A00019

About TGFB1

TGF-beta-1 is a multifunctional cytokine that belongs to a superfamily of structurally related regulatory proteins, including three mammalian TGF-beta isoforms (TGF-beta-1, -beta-2, and -beta-3), activin/inhibins and bone morphogenetic proteins. The most abundant isoform, TGF-beta-1, is a 25kDa homodimer composed of two 12.5 kDa subunits joined by disulfide bonds. TGF-beta-1 is a highly conserved molecule; the amino acid sequence between human and mouse differs by only one residue. Although originally defined by its ability to cause anchorage independent cell growth and changes in cell morphology of rat fibroblasts, subsequent research has revealed that TGF-beta is actually a major growth inhibitor for most cell types. It is 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.

Overview

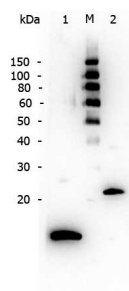
Product Name	Anti-TGF beta 1 TGFB1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-TGF beta 1 TGFB1 Antibody (Catalog # A00019). Tested in ELISA, WB applications. This antibody reacts with Human.
Conjugate	HRP
Application	ELISA, WB
Clonality	Polyclonal WH-3
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P01137

Technical Details

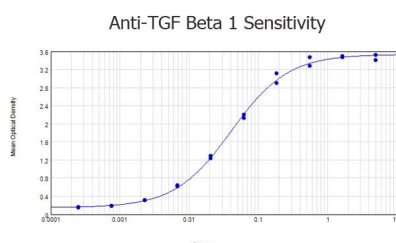
Immunogen	TGF beta 1 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of the mature growth factor (112 amino acids in length).
Predicted Reactive Species	Bovine, Canine, Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.13 mg/ml by UV absorbance at 280 nm
Purification	Rabbit Anti-TGF beta 1 affinity purified antibody is directed against human TGFb1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest reactivity with this protein from most mammalian sources based on 100% homology for the immunogen sequence. Cross-reactivity is expected with TGFb1 from non-mammalian sources as only a single amino acid residue change is found within the immunogen sequence from many other organisms.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000 - 1:20,000</p> <p>IF Microscopy: User optimized</p> <p>WB: 1:100 - 1:500</p>

Anti-TGF beta 1 TGFB1 Antibody (A00019) Images



Western blot analysis of TGF beta 1 in reduced recombinant TGF Beta 1 (lane 1), ladder (lane 2) and Non-reduced recombinant TGF Beta 1 (lane 3) using rabbit anti-TGF beta 1 affinity purified polyclonal antibody (Catalog # A00019) at 1:200. Load: 250 ng per lane. Predicted/Observed size: 12 kDa/25 kDa, 12 kDa for reduced TGF Beta 1/25 kDa for non-reduced TGF Beta 1. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



ELISA results of rabbit anti-TGF beta 1 affinity purified polyclonal antibody (Catalog # A00019) tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1

25 Publications Citing This Product

1. PubMed ID: 31505422, Ge Y, Cheng R, Sun S, Zhang S, Li L, Jiang J, Yang C, Xuan X, Chen J. Fangxiao Formula alleviates airway inflammation and remodeling in rats with asthma via suppression of transforming growth factor -beta/Smad3 signaling pathway. Biomed Pharmacother. 2019 Nov;119:109429. doi:10.1016/j.biopha.2019.109429. Epub 2019 Sep 7. PMID:31505422.
2. PubMed ID: -, Jiang Peng-Fei, Peng Jun, Tan Han-Yu, Ou-Yang Yun, Qin Gen-Yan, Peng Qing-Hua, Effects of Buddlejae Flos Granules on Inflammatory Factors TGF-beta1, NF-kappaB, IL-10 and IL-12 in Lacrimal Gland Cells of Castrated Male Rabbits, Digital Chinese Medicine, Volume 2, Issue 2, 2019, Pages 97-104, ISSN 2589-3777, https://doi.org/10.1016/j.dcm.2019.09.004.
3. PubMed ID: -, Yao Ming, Sijing Cheng, Wen Long, Hong-Lian Wang, Chuanlan Xu, Xiaoyu Liu, Qiong Zhang, Sha Zhao, Xia Zou, Junming Fan, Li Wang, Hongchun Shen, "The Herbal Formula Granule Prescription Mahuang Decoction Ameliorated Chronic Kidney Disease Which Was Associated with Restoration of Dysbiosis of Intestinal Microbiota in Rats", Evidence-Based Complementary and Alternative Medicine, vol. 2021, Article ID 4602612, 12 pages, 2021. https://doi.org/10.1155/2021/4602612

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