

Datasheet for ABIN114558
anti-TGFB1 antibody



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Overview

Quantity:	0.5 mg
Target:	TGFB1
Reactivity:	Human, Sheep
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA), Functional Studies (Func)

Product Details

Immunogen:	TGF-beta from Human platelets.
Clone:	TB21
Isotype:	IgG1
Specificity:	This antibody detects Transforming Growth Factor beta/TGF beta.
Purification:	Affinity Chromatography on Protein G.

Target Details

Target:	TGFB1
Alternative Name:	TGFB1 (TGFB1 Products)

Target Details

Background:	TGF beta 1 (Transforming Growth Factor Beta 1) is a multifunctional peptide capable of influencing cell proliferation, differentiation, and other functions in a wide range of cell types. Transformed as well as non neoplastic tissues, release transforming growth factors, and essentially all cells possess a specific TGF beta 1 receptor. The multimodal nature of TGF beta 1 is seen in its ability to stimulate or inhibit cellular proliferation. TGF beta 1 plays a fundamental role in tissue growth and differentiation involvement in adipogenesis, myogenesis, chondrogenesis, osteogenesis, epithelial cell differentiation and immune cell function. The C-terminal 112 amino acids constitute the mature protein.Synonyms: TGF-beta-1, TGFB, Transforming growth factor beta-1
Gene ID:	7040
NCBI Accession:	NP_000651
UniProt:	P01137
Pathways:	EGFR Signaling Pathway , Dopaminergic Neurogenesis , Cellular Response to Molecule of Bacterial Origin , Glycosaminoglycan Metabolic Process , Regulation of Leukocyte Mediated Immunity , Regulation of Muscle Cell Differentiation , Positive Regulation of Immune Effector Process , Cell-Cell Junction Organization , Production of Molecular Mediator of Immune Response , Ribonucleoside Biosynthetic Process , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus , Autophagy , Cancer Immune Checkpoints

Application Details

Application Notes:	ELISAThis antibody recognizes both Human platelet-derived and recombinant TGF-beta in ELISA. Functional AssayThis antibody neutralizes TGF-beta activity in vitro, in an inhibition assay of CCL/64 cellgrowth and neutralizes the growth promoting action of TGF-beta in the NRK-49F colonyforming assay. The effect of micro-injection of this antibody into one blastomere of two cellstage Xenopus embryos indicated that it was able to neutralize effectively the bioactivity ofTGF-beta in vivo. Immunohistochemistry on FFPE and Frozen SectionsThis antibody has been used to demonstrate TGF-beta in ovine ovarian tissue and humanbreast carcinoma at a dilution of 1: 1000. As a consequence of the intense staining of theerythrocytes it is possible to locate a single cell within the ovarian stroma making it usefulin locating very fine capillary networks within tissue. Western Blotting5-20 ng/mL will allow visualization of 100 ng/lane of TGF-beta. Reacts with dimeric (25 Kd)
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in 0.5 mL double distilled water.
Concentration:	1.0 mg/mL
Buffer:	0.01 M PBS, pH 7.0 without preservatives.
Preservative:	Without preservative
Handling Advice:	This product is photosensitive and should be protected from light
Storage:	4 °C
Storage Comment:	Store the antibody at 2 - 8 °C. DO NOT FREEZE!

Publications

Product cited in:	Moesgaard, Aupperle, Rajamäki, Falk, Rasmussen, Zois, Olsen: "Matrix metalloproteinases (MMPs), tissue inhibitors of metalloproteinases (TIMPs) and transforming growth factor-β (TGF-β) in advanced canine myxomatous mitral valve disease." in: Research in veterinary science, Vol. 97, Issue 3, pp. 560-7, (2015) (PubMed). Yue, Goldstein, Hollingsworth, Kaul, Brand, Haab: "The prevalence and nature of glycan alterations on specific proteins in pancreatic cancer patients revealed using antibody-lectin sandwich arrays." in: Molecular & cellular proteomics : MCP, Vol. 8, Issue 7, pp. 1697-707, (2009) (PubMed). Bukowska, Lendeckel, Krohn, Keilhoff, ten Have, Neumann, Goette: "Atrial fibrillation down-regulates renal neutral endopeptidase expression and induces profibrotic pathways in the kidney." in: Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology, Vol. 10, Issue 10, pp. 1212-7, (2008) (PubMed). Aupperle, März, Thielebein, Schoon: "Expression of transforming growth factor-β1, -β2 and -β3 in normal and diseased canine mitral valves." in: Journal of comparative pathology, Vol. 139, Issue 2-3, pp. 97-107, (2008) (PubMed). Jaeger, Koczan, Thiesen, Ibrahim, Gross, Spang, Kunz: "Gene expression signatures for tumor progression, tumor subtype, and tumor thickness in laser-microdissected melanoma tissues." in: Clinical cancer research : an official journal of the American Association for Cancer Research, Vol. 13, Issue 3, pp. 806-15, (2007) (PubMed).
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