

Rabbit Anti-TGF beta 1 antibody

SL0086R

Product Name:	TGF beta 1
Chinese Name:	转化生长因子β1/TGF β1/TGF-β1抗体
Alias:	CED; DPD1; TGF beta 1; TGF beta; TGF beta 1 protein; TGF-beta 1 protein; TGF-beta-1; TGF-beta-5; TGF-beta1; TGFB; Tgfb-1; tgfb1; TGFB1_HUMAN; TGFbeta; TGFbeta1; Transforming Growth Factor b1; Transforming Growth Factor beta 1; Transforming growth factor beta 1a; transforming growth factor beta-1; transforming growth factor, beta 1.
文献引用 Pub <mark>M</mark> ed :	Specific References(16) SL0086R has been referenced in 16 publications.
	[IF=1.96]Kou, Wei, et al. ?Transforming growth factor-β1 promotes Treg commitment
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	PubMed:23178794
	[IF=4.52] Abdelmagid, Samir M., et al. "Mutation in Osteoactivin Reduces Bone
	Formation in Vivo and Osteoblast Differentiation in Vitro." The American Journal of
	Pathology (2014).WB;Rat.
	PubMed:24462663
	[IF=1.06] Erbas, O., et al. "Nephro-protective effect of granulocyte colony-stimulating
	factor in streptozotocin induced diabetic rats." Biotechnic & Histochemistry 0 (2014): 1-
	9.IHC-P;Rat.
	PubMed:24707907
	[IF=0.94] Tang, Jin, et al. "Increased adenosine levels contribute to ischemic kidney
	fibrosis in the unilateral ureteral obstruction model." Experimental and Therapeutic
	Medicine.IHC-P;Mouse.

PubMed:25667621

[IF=3.23]Xue X, Chen Q, Zhao G, Zhao J-Y, Duan Z, Zheng P-S (2015) The Overexpression of TGF-β and CCN2 in Intrauterine Adhesions Involves the NF-κB Signaling Pathway. PLoS ONE 10(12): e0146159.IHC-P;Human.

PubMed:26719893

[IF=1.88] Venter, Neil Grant, et al. "Use of platelet-rich plasma in deep second-and third-degree burns." Burns (2016).other;

PubMed:26822695

[IF=7.39] Ganguly, Rituparna, et al. "Anti-atherogenic Effect of Trivalent Chromium-loaded CPMV Nanoparticles in Human Aortic Smooth Muscle Cells under Hyperglycemic Conditions in vitro." Nanoscale (2016). WB; Human.

PubMed:26935414

[IF=1.64]Eren, Kenan, et al. "The Suppression of Wound Healing Response with Sirolimus and Sunitinib Following Experimental Trabeculectomy in a Rabbit Model." Current Eye Research (2016): 1-10.IHC-P;Rabbit.

PubMed:25897981

[IF=1.89]Hu, Jianguo, Biao Zeng, and Xingwei Jiang. "The expression of marker for endometrial stem cell and fibrosis was increased in intrauterine adhesious."International journal of clinical and experimental pathology 8.2 (2015): 1525.IHC-P;Mouse.

PubMed:25973037

[IF=1.27]Sun, Zhenqiang, et al. "Immunological effect induced by mesenchymal stem cells in a rat liver transplantation model." Experimental and therapeutic medicine 10.2 (2015): 401-406.IHC-P;Rat.

PubMed:26622328

[IF=1.40]Zhu, Yi, et al. "High Molecular Weight Hyaluronic Acid Inhibits Fibrosis of Endometrium." Medical Science Monitor 22 (2016): 3438-3445.IHC-P;Mouse.

PubMed:27670361

[IF=5.29]Shang, Peijin, et al. "Acetyl-11-Keto-β-Boswellic Acid Attenuates Prooxidant and Profibrotic Mechanisms Involving Transforming Growth Factor-β1, and Improves Vascular Remodeling in Spontaneously Hypertensive Rats." Scientific Reports 6 (2016): 39809.IHC-P;Rat.

PubMed:28009003

	[IF=1.56]Du, Jinghua, et al. "TLR4?dependent signaling pathway modulation: A novel
	mechanism by which pioglitazone protects against nutritional fibrotic steatohepatitis in
	mice." Molecular medicine reports 13.3 (2016): 2159-2166. WB; Mouse.
	inice. Molecular medicine reports 15.5 (2010). 2139-2100. wb; Mouse.
	PubMed:26781175
	[IF=2.55]Shen, Haitao, et al. "Chloroquine attenuates paraquat-induced lung injury in
	mice by altering inflammation, oxidative stress and fibrosis." International
	Immunopharmacology 46 (2017): 16-22.IHC-P;Mouse.
	<u>PubMed:28249220</u>
	[IF=2.13]Mao, Rui, et al. "Efficacy of radiotherapy for the treatment of cystic
	echinococcosis in naturally infected sheep." Infectious Diseases of Poverty 6.1 (2017):
	88.IHC-P;Sheep.
	<u>PubMed:28464914</u>
	[IF=2.45]Xiu, Zhi-Ming, et al. "1-Acetyl-5-phenyl-1H-pyrrol-3-ylacetate: an aldose
	reductase inhibitor for the treatment of diabetic nephropathy." Bioorganic & Medicinal
	Chemistry Letters (2017).WB;Rat.
Organism Species:	PubMed:0 Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep, Guinea Pig,
react species.	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-
	500 (Paraffin sections need antigen repair)
Applications:	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12.8/44kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TGF-Beta 1:351-390/390
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
	antibody is stable at room temperature for at least one month and for greater than a year
	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed This can amond as a member of the transforming growth factor hate (TCER) family of
Product Detail:	This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation,
	adhesion, migration, and other functions in many cell types. Many cells have TGFB
	manifoldi, ingranon, and other randonous in many cent types. Many cents have TOI D

receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form composed of a TGFB1 homodimer. The mature peptide may also form composed of a TGFB1 homodimer. The mature peptide may also form composed of a TGFB1 homodimer. The mature peptide may also form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.

Function:

Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts.

Subunit:

Homodimer; disulfide-linked, or heterodimer with TGFB2. Secreted and stored as a biologically inactive form in the extracellular matrix in a 290 kDa complex (large latent TGF-beta1 complex) containing the TGFB1 homodimer, the latency-associated peptide (LAP), and the latent TGFB1 binding protein-1 (LTBP1). The complex without LTBP1 is known as the small latent TGF-beta1 complex'. Dissociation of the TGFB1 from LAP is required for growth factor activation and biological activity. Release of the large latent TGF-beta1 complex from the extracellular matrix is carried out by the matrix metalloproteinase MMP3 (By similarity). May interact with THSD4; this interaction may lead to sequestration by FBN1 microfibril assembly and attenuation of TGFB signaling. Interacts with the serine proteases, HTRA1 and HTRA3: the interaction with either inhibits TGFB1-mediated signaling. The HTRA protease activity is required for this inhibition (By similarity). Interacts with CD109, DPT and ASPN.

Subcellular Location:

Secreted, extracellular space, extracellular matrix.

Tissue Specificity:

Highly expressed in bone. Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis (OA). Co-localizes with ASPN in chondrocytes within OA lesions of articular cartilage.

Post-translational modifications:

Glycosylated.

The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to mature TGF-beta-1 rendering it inactive.

DISEASE:

Defects in TGFB1 are the cause of Camurati-Engelmann disease (CE) [MIM:131300]; also known as progressive diaphyseal dysplasia 1 (DPD1). CE is an autosomal dominant disorder characterized by hyperostosis and sclerosis of the diaphyses of long bones. The disease typically presents in early childhood with pain, muscular weakness and waddling gait, and in some cases other features such as exophthalmos, facial paralysis, hearing difficulties and loss of vision.

Similarity:

Belongs to the TGF-beta family.

SWISS: P01137

Gene ID: 7040

Database links:

Entrez Gene: 7040Human

Entrez Gene: 21803 Mouse

Entrez Gene: 59086Rat Omim: 190180Human

SwissProt: P01137Human

SwissProt: P04202Mouse

SwissProt: P17246Rat

Unigene: 645227Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

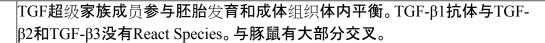
Growth factors and hormones (Growth Factor and Hormones)

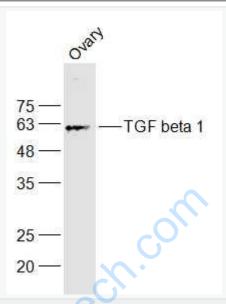
TGF是一种多效生长因子,对epithelial

cells增值有潜在抑制作用,可抑制Tumour生长用于许多恶性Tumour如:胃癌、肺癌、 膀胱癌、肾癌、前列腺癌、结肠癌等多种恶性Tumour的研究。

TGFβ超级家族由为数众多的生长的分化因子组成,包括转移生长因子β1, 2和3(TGFβ1, TGFβ2, TGFβ3); 胎盘生长因子(PTGF-

 β);生长/分化因子(GDFs);缪氏抑制物(MIS);骨形态形成蛋白(BMPs);交织细胞元神经生长因子(GDNF);抑制素和活化素(α , β -A,和 β -C), Lefty和Nodal。





Sample:

Ovary (Mouse) Lysate at 40 ug

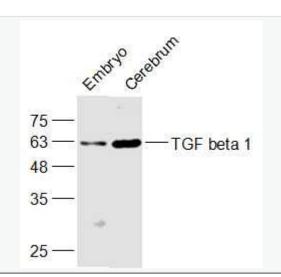
Primary: Anti-TGF beta 1 (SL0086R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12.8/44 kD

Observed band size: 59 kD





Sample:

Embryo (Mouse) Lysate at 40 ug

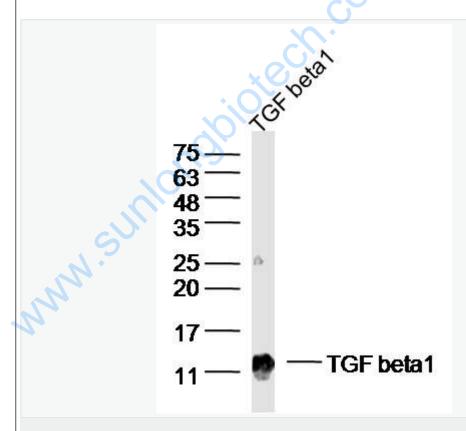
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-TGF beta 1 (SL0086R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12.8/44 kD

Observed band size: 59 kD



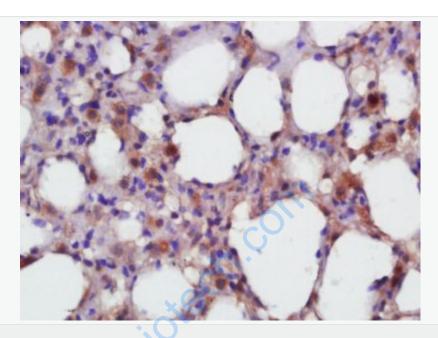
Sample:TGF beta1 recombinant protein (human) Lysate at 100ng

Primary: Anti-TGF beta1 (SL0086R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12.8/44 kD

Observed band size: 12.8 kD



Paraformaldehyde-fixed, paraffin embedded (Rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TGF beta 1) Polyclonal Antibody, Unconjugated (SL0086R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.