

Datasheet for ABIN6266431
anti-TGFB1 antibody (C-Term)



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Overview

Quantity:	100 µL
Target:	TGFB1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthesized peptide derived from human TGF beta1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	TGF beta1 Antibody detects endogenous levels of total TGF beta1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	TGFB1
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Target Details

Alternative Name:	TGFB1 (TGFB1 Products)
Background:	Description: 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 (By similarity). Stimulates sustained production of collagen through the activation of CREB3L1 by regulated intramembrane proteolysis (RIP) (PubMed:25310401). Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells. Mediates SMAD2/3 activation by inducing its phosphorylation and subsequent translocation to the nucleus (PubMed:25893292). Can induce epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types (PubMed:25893292). Gene: TGFB1
Molecular Weight:	45kDa
Gene ID:	7040
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

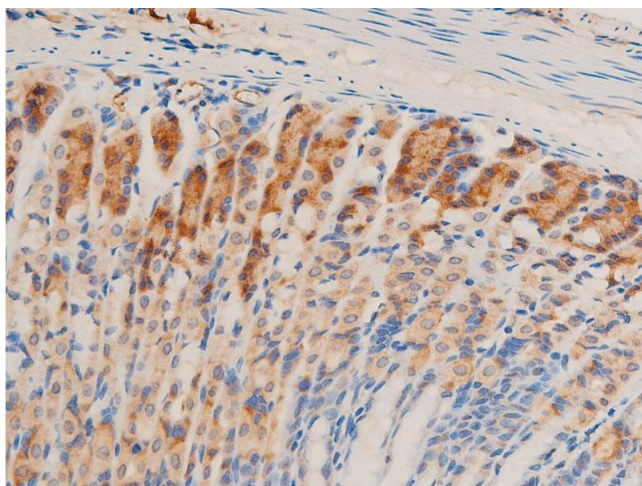
Application Notes:	WB: 1:500-1:2000, IHC: 1:50-1:200, IF/ICC 1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

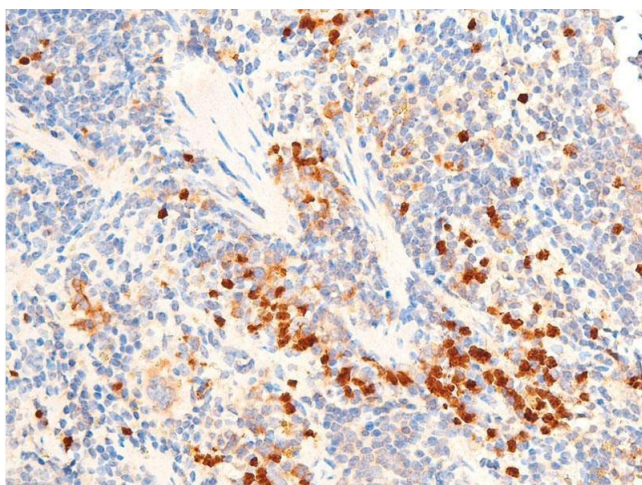
Publications

Product cited in:	Yan, Li, Fan, Du, Ma, Cheng, Li, Zhang, Yu, Wang, Tang, Zheng: "The roles of Toll-like receptor 4 in the pathogenesis of pathogen-associated biliary fibrosis caused by <i>Clonorchis sinensis</i>." in: Scientific reports, Vol. 7, Issue 1, pp. 3909, (2018) (PubMed). Xia, Deng, Zhou, Shao, Yang, Sha, Zou: "Expression and significance of Sirt1 in renal allografts at the early stage of chronic renal allograft dysfunction." in: Transplant immunology, Vol. 48, pp. 18-25, (2018) (PubMed). Hui, Dingjie, Yuan, Zhongqiu, Na, Mingjian, Yu, Guangyuan, Xuemin, Shifeng, Yucong, Fang, Summer, Hong: "Silicosis decreases bone mineral density in rats." in: Toxicology and applied pharmacology, Vol. 348, pp. 117-122, (2018) (PubMed). Zhao, Wu, Chen, Ji, Zheng: "TGF-β1 and connexin-43 expression in neurogenic bladder from rats with sacral spinal cord injury." in: Neurourology and urodynamics, (2018) (PubMed). Ai, Liu, Lu, Liang, Sun, Chen, Sun, Li, Liu, Zhang, Liu, Xiao, Jing, Sun, Zhou, Yang: "Phenytoin silver: a new nanocompound for promoting dermal wound healing via comprehensive pharmacological action." in: Theranostics, Vol. 7, Issue 2, pp. 425-435, (2017) (PubMed).
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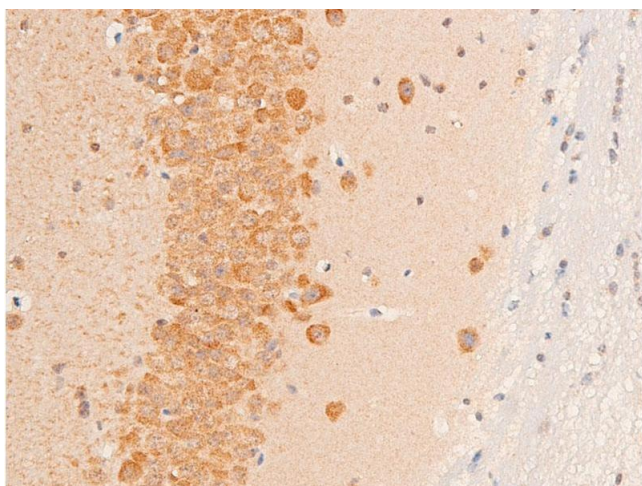
Immunohistochemistry

Image 1. ABIN6267067 at 1/100 staining mouse gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry

Image 2. ABIN6267067 at 1/100 staining mouse spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry

Image 3. ABIN6267067 at 1/100 staining mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 11 images are available for ABIN6266431.