

Datasheet for ABIN6149071
anti-TGFB1 antibody (AA 30-280)



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Overview

Quantity:	100 µL
Target:	TGFB1
Binding Specificity:	AA 30-280
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 30-280 of human TGFB1 (NP_000651.3).
Sequence:	LSTCKTIDME LVKRKRIEAI RGQILSKLRL ASPPSQGEVP PGPLPEAVLA LYNSTRDRVA GESAEPEPEP EADYYAKEVT RVLMVETHNE IYDKFKQSTH SIYFFNTSE LREAVPEPVL LSRAELRLLR LKLKVEQHVE LYQKYSNNSW RYLSNRLLAP SDSPEWLSFD VTGVVRQWLS RGGEIEGFRL SAHCSCDSRD NTLQVDINGF TTGRRGDLAT IHGMNRPFL L MATPLERAQ HLQSSRHRRA L
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	TGFB1
Alternative Name:	TGFB1 (TGFB1 Products)
Background:	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 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 heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.,TGFB1,CED,DPD1,LAP,TGFB,TGFbeta,TGF-β,Cancer,Invasion and Metastasis,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Growth factor,TGF-b-Smad Signaling Pathway,Wnt/β-Catenin Signaling Pathway,Endocrine & Metabolism,Stem Cells,Cardiovascular,Angiogenesis,Angiogenic growth factors,Hypoxia,Ligand,TGFB1
Molecular Weight:	44 kDa
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,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

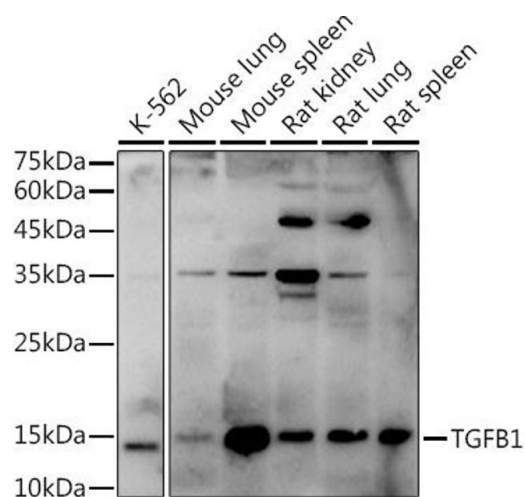
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
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. Avoid freeze / thaw cycles.

Publications

- Product cited in:
- Liu, Zhang, Su, Wang, Liu, Kong: "Effects of cholecalciferol cholesterol emulsion on renal fibrosis and aquaporin 2 and 4 in mice with unilateral ureteral obstruction." in: **Biomedicine & pharmacotherapy**, Vol. 102, pp. 633-638, (2018) ([PubMed](#)).
- Xiong, Zhao, Lin, Yao, Huang, Yu, Dong, Xiao, Zhao, Cai et al.: "Phosphorylation of low density lipoprotein receptor-related protein 6 is involved in receptor for advanced glycation end product-mediated β -catenin stabilization in a toluene diisocyanate-induced ..." in: **International immunopharmacology**, Vol. 59, pp. 187-196, (2018) ([PubMed](#)).
- Chen, Li: "Telbivudine attenuates UUO-induced renal fibrosis via TGF- β /Smad and NF- κ B signaling." in: **International immunopharmacology**, Vol. 55, pp. 1-8, (2018) ([PubMed](#)).
- Zhao, Yin, Li, Fan, Yang, Chen, Wang: "MiR-30c protects diabetic nephropathy by suppressing epithelial-to-mesenchymal transition in db/db mice." in: **Aging cell**, Vol. 16, Issue 2, pp. 387-400, (2017) ([PubMed](#)).
- Xie, Chen, Hu, Pan, Wang, Li, Geng, Xu: "Premature senescence of cardiac fibroblasts and atrial fibrosis in patients with atrial fibrillation." in: **Oncotarget**, Vol. 8, Issue 35, pp. 57981-57990, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using TGF beta 1 antibody (ABIN6128821, ABIN6149071, ABIN6149073 and ABIN6219327) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 60s.