

TGF-Beta 1 Antibody

Catalog No: #48569



Package Size: #48569-1 50ul #48569-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

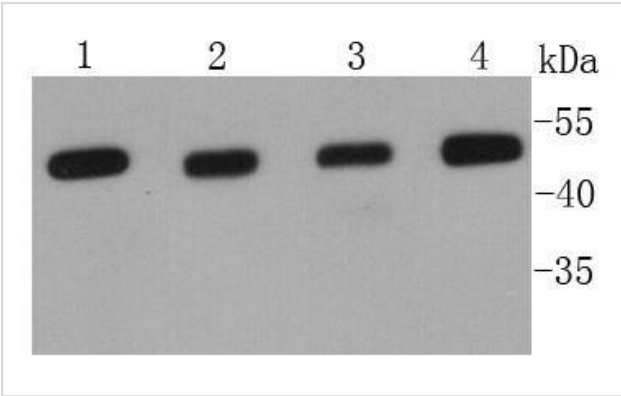
Description

Product Name	TGF-Beta 1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt, Zebrafish
Immunogen Description	peptide
Other Names	Cartilage-inducing factor antibody CED antibody Differentiation inhibiting factor antibody DPD1 antibody LAP antibody Latency-associated peptide antibody Prepro transforming growth factor beta 1 antibody TGF beta 1 antibody TGF beta antibody TGF beta 1 protein antibody TGF-beta 1 protein antibody TGF-beta-1 antibody TGF-beta-5 antibody TGF-beta1 antibody TGFB antibody Tgfb-1 antibody tgf1 antibody TGFB1_HUMAN antibody TGFbeta antibody TGFbeta1 antibody Transforming Growth Factor b1 antibody Transforming Growth Factor beta 1 antibody Transforming growth factor beta 1a antibody transforming growth factor beta-1 antibody transforming growth factor, beta 1 antibody Transforming Growth Factor-?1 antibody
Accession No.	Swiss-Prot#:P01137
Calculated MW	44 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

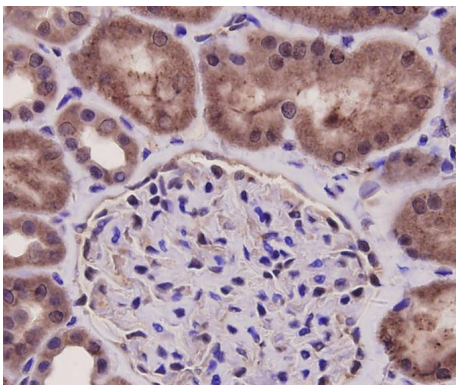
Application Details

WB: 1:500-1:1,000 IHC: 1:200 ICC: 1:200 FC:1:100

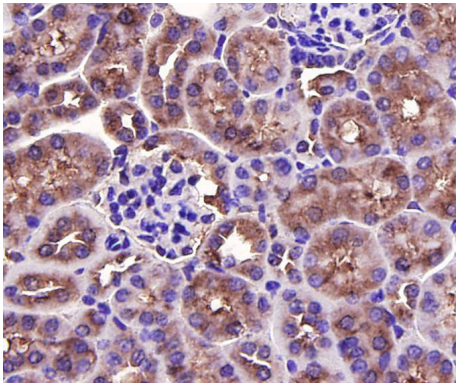
Images



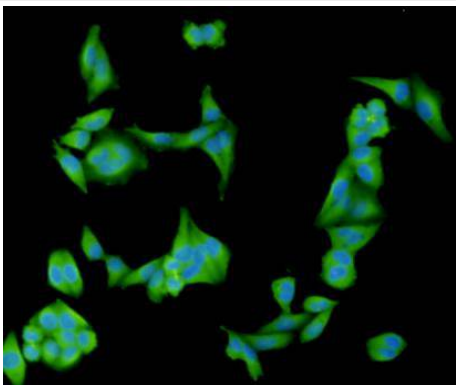
Western blot analysis of TGF-Beta 1 on different cell lysates using anti- TGF-Beta 1 antibody at 1/1000 dilution. Positive control:  
Lane 1: Raji  
Lane 2: MCF-2  
Lane 3: A549  
Lane 4: Human kidney



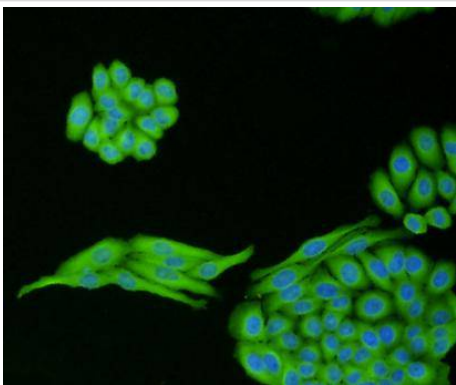
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-TGF-Beta 1 antibody. Counter stained with hematoxylin.



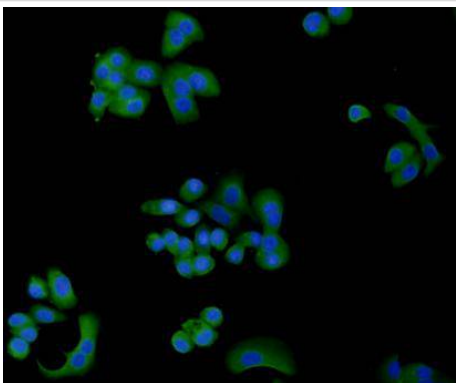
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-TGF-Beta 1 antibody. Counter stained with hematoxylin.



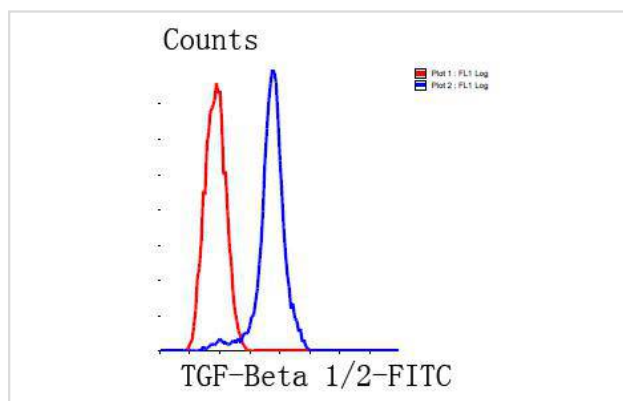
ICC staining TGF-Beta 1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TGF-Beta 1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TGF-Beta 1 in SKBR-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HepG2 cells with TGF-Beta 1 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

## Background

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. Heterodimers of TGFB1/TGFB2 have been found in bone. Interacts with CD109 and DPT. Interacts with ASPN. Function: TGF beta 2 has suppressive effects on interleukin-2 dependent T-cell growth. Tissue specificity: TGF beta 1 is highly expressed in bone. A chromosomal aberration involving TGFB2 is found in a family with Peters anomaly.

## References

1. "A mutation affecting the latency-associated peptide of TGFbeta1 in Camurati-Engelmann disease enhances osteoclast formation in vitro." McGowan N.W., MacPherson H., Janssens K., Van Hul W., Frith J.C., Fraser W.D., Ralston S.H., Helfrich M.H. J. Clin. Endocrinol. Metab. 88:3321-3326(2003)
2. "Identification of CD109 as part of the TGF-beta receptor system in human keratinocytes." Finnson K.W., Tam B.Y.Y., Liu K., Marcoux A., Lepage P., Roy S., Bizet A.A., Philip A. FASEB J. 20:1525-1527(2006)
3. "Loss-of-function mutations in TGFB2 cause a syndromic presentation of thoracic aortic aneurysm." Lindsay M.E., Schepers D., Bolar N.A., Doyle J.J., Gallo E., Fert-Bober J., Kempers M.J., Fishman E.K., Chen Y., Myers L., Bjeda D., Oswald G., Elias A.F., Levy H.P., Anderlid B.M., Yang M.H., Bongers E.M., Timmermans J., Braverman A.C., Canham N., Mortier G.R., Brunner H.G., Byers P.H., Van Eyk J., Van Laer L., Dietz H.C., Loeys B.L. Nat. Genet. 44:922-927(2012)

## Published Papers

el at., Lrpap1 deficiency leads to myopia through TGF-β-induced apoptosis in zebrafish. In Cell Commun Signal on 2022 Oct 19 by Shanshan Liu, Ting Chen, et al..PMID: 36261846, , (2022)

[PMID:36261846](#)

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.