Product Name: KD-Validated TGF Beta 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01158
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.3kDa

Antigen Information

Gene Name	TGFB1
Alternative Names	TGFB1; Transforming Growth Factor Beta 1; TGFB; CED; Transforming Growth Factor Beta-1 Proprotein; Prepro-Transforming Growth Factor Beta-1; TGFbeta; DPD1; Diaphyseal Dysplasia 1, Progressive; Transforming Growth Factor, Beta 1; Transforming Growth Factor Beta 1; Camurati-Engelmann Disease; Latency-Associated Peptide; TGF-Beta-1; TGF-Beta1; IBDIMDE; TGFBETA; LAP
Gene ID	7040.0
SwissProt ID	P01137
Immunogen	A synthesized peptide derived from human TGF beta 1

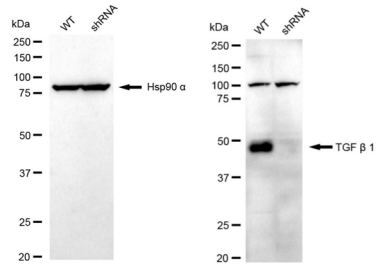
Background

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Aug 2016]

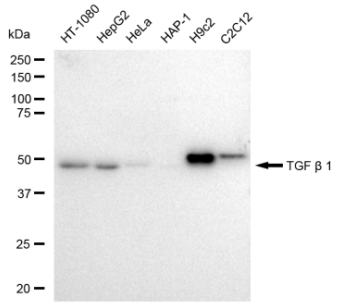
Research Area

Cardiovascular,Signal Transduction,Stem Cells,Cancer,Metabolism

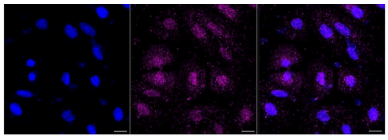
Image Data



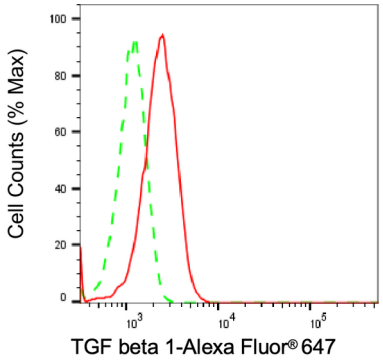
Western blotting analysis using TGF beta 1 antibody (KVAb01158). TGF beta 1 expression in wild type (WT) and TGF beta 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TGF beta 1 antibody (KVAb01158, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using TGF beta 1 antibody (KVAb01158). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TGF beta 1 antibody (KVAb01158, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with TGF beta 1 antibody (KVAb01158, 1:1,000) . Nuclei were stained blue with DAPI; TGF beta 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of TGF beta 1 expression in HepG2 cells using TGF beta 1 antibody (KVAb01158, 1:2,000). Green, isotype control; red, TGF beta 1.