

# TGF beta 1 Rabbit mAb

Catalog No.: A22296 **Recombinant**

## Basic Information

**Observed MW**

45-60kDa

**Calculated MW**

44kDa

**Category**

Primary antibody

**Applications**

ELISA,WB,IF/ICC

**Cross-Reactivity**

Human, Rat

**CloneNo number**

ARC57012

## 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 TGF-beta 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.

## Recommended Dilutions

**WB** 1:2000 - 1:7000**IF/ICC** 1:500 - 1:1000

## Immunogen Information

**Gene ID**

7040

**Swiss Prot**

P01137

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 30-390 of human TGF beta 1 (NP\_000651.3).

**Synonyms**

CED; LAP; DPD1; TGFB; IBDIMDE; TGFbeta; TGF-beta1; TGF beta 1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

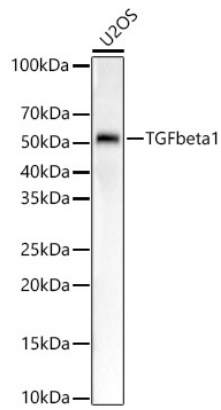
**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

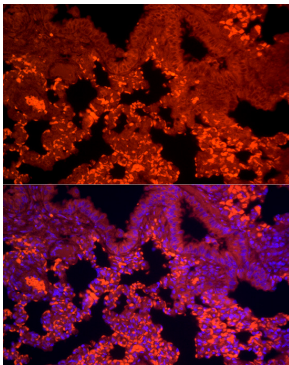
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of U2OS, using TGFbeta1 antibody (A22296) at 1:6000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 180s.



Immunofluorescence analysis of rat lung using TGF beta 1 Rabbit mAb (A22296) at dilution of 1:800 (40x lens). Blue: DAPI for nuclear staining.