TGF beta 1 Rabbit mAb

Catalog NO.: A22296 Recombinant 1 Publications

Basic Information

Observed MW
45-60kDa

Calculated MW
44kDa

Category
Monoclonal Antibodies

Applications
WB, IF-P, ELISA

Cross-Reactivity
Human, Rat

Conjugation
Unconjugated

Clone 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 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.

Recommended Dilutions

WB	1:2000 - 1:7000
IF-P	1:500 - 1:1000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
7040

Swiss Prot
P01137

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

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

Contact

Product Information

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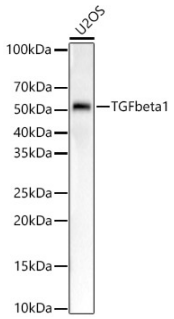
Source
Rabbit

Isotype
IgG

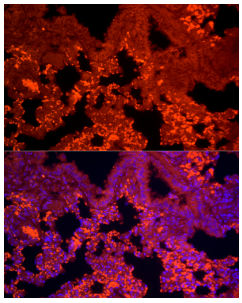
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from U2OS cells, using TGF beta 1 Rabbit mAb (A22296) at 1:6000 dilution.
Secondary antibody: HRP-conjugated 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 paraffin-embedded rat lung using TGF beta 1 Rabbit mAb (A22296) at dilution of 1:800 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

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