

Datasheet for ABIN7601058
anti-TGFB1 antibody (AA 279-347)



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Overview

Quantity:	100 µg
Target:	TGFB1
Binding Specificity:	AA 279-347
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-TGFB1 Antibody Picoband®
Immunogen:	E.coli-derived human TGF Beta 1/TGFB1 recombinant protein (Position: A279-H347). Human TGF Beta 1/TGFB1 shares 100 amino acid (aa) sequence identity with both mouse and rat TGF Beta 1/TGFB1.
Characteristics:	Anti-TGFB1 Antibody Picoband® (ABIN7601058). Tested in WB, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	TGFB1
Alternative Name:	TGFB1 (TGFB1 Products)
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.
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:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Awad, M. R., El-Gamel, A., Hasleton, P., Turner, D. M., Sinnott, P. J., Hutchinson, I. V. Genotypic variation in the transforming growth factor-beta-1 gene: association with transforming growth factor-beta-1 production, fibrotic lung disease, and graft fibrosis after lung transplantation. Transplantation 66: 1014-1020, 1998. 2. Azar, S. T., Salti, I., Zantout, M. S., Major, S. Alterations in plasma transforming growth factor beta in normoalbuminuric type 1 and type 2 diabetic
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Application Details

patients. J. Clin. Endocr. Metab. 85: 4680-4682, 2000. 3. Bernasconi, P., Torchiana, E., Confalonieri, P., Brugnoli, R., Barresi, R., Mora, M., Conelio, F., Morandi, L., Mantegazza, R. Expression of transforming growth factor-beta-1 in dystrophic patient muscles correlates with fibrosis: pathogenetic role of a fibrogenic cytokine. J. Clin. Invest. 96: 1137-1144, 1995.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.