

Datasheet for ABIN6719785

TGFB1 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	TGFB1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA), Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Camurati-Engelmann disease, CED, DPD1, LAP, Latency-associated peptide, TGF beta 1 protein, TGF-beta-1, TGFB, tgfb1, TGFB1_HUMAN, TGFbeta, Transforming growth factor beta 1</p> <p>Background: Transforming growth factor-beta1 (TGF-beta1) is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines a positive or negative direction of their effects. TGF-beta1 is known for its potent and diverse biological</p>

Product Details

effects, including immune regulation, and cell growth and differentiation. TGF-beta1 is also an important mediator of bone remodeling. TGF-beta1, a potent keratinocyte growth inhibitor, has been shown to be overexpressed in keratinocytes in certain inflammatory skin diseases and has been thought to counteract the effects of other growth factors at the site of inflammation. TGF-beta1, a multifunctional cytokine with fibrogenic properties, has been implicated in the pathogenesis of the vascular and target organ complications of hypertension. TGF-beta1 may also regulate blood pressure via stimulation of endothelin-1 and/or renin secretion. TGF-beta1 is secreted as a latent form, which consists of its mature form and a latency-associated peptide (beta1-LAP) in either the presence or the absence of additional latent TGF-beta1-binding protein. The standard product used in this kit is recombinant TGF beta1 with the molecular mass of 25KDa.

Gene Name: TGFB1

Production: Natural and recombinant human TGF beta1. Predicted reactivity with bovine, canine, monkey, and rabbit. No know cross-reactivity with other relevant proteins.

Standard: Expression system for standard: CHO, Immunogen sequence: A279-S390

Target Details

Target:	TGFB1
Alternative Name:	TGF beta 1 (TGFB1 Products)
Gene ID:	7040
NCBI Accession:	NP_000651
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:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL,
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Application Details

15.6pg/mL human TGF beta 1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of activated human in cell culture supernates, serum, plasma (EDTA) or urine to each empty well. It is recommended that each human TGF beta 1 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Sodium EDTA

ELISA Dilution: 15.6pg/mL-1000pg/mL

Sample Volume: 100 μ L

Plate: Pre-coated

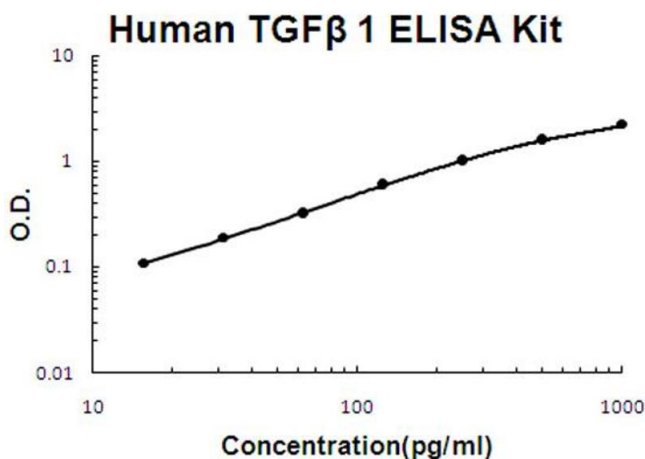
Restrictions: For Research Use only

Handling

Storage: RT,4 °C,-20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Human TGF beta 1 Accusignal ELISA Kit Human TGF beta 1 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.