

Human TGF beta 1 ELISA Kit | TGFB1 elisa kit

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CATALOG # AAA261724	REACTIVITY Human	APPLICATIONS ELISA
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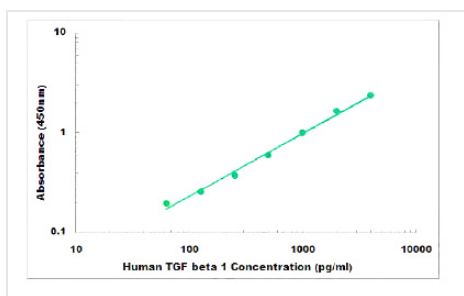
PRODUCT SYNONYMS

TGF beta 1; Human TGF beta 1 ELISA Kit; TGFB; Transforming growth factor beta-1; TGF-beta-1; TGFB1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human TGF beta 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human TGF beta 1 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	390
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates, Urine.
Sensitivity	15 pg/ml.
Applicable Applications for TGFB1 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFB1 elisa kit	Principle of the Assay The Human TGF beta 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human TGF beta 1 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates, Urine. This assay employs an antibody specific for Human TGF beta 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and TGF beta 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human TGF beta 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of TGF beta 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Transforming growth factor-beta 1 (TGF-beta 1) 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 beta 1 is known for its potent and diverse biological effects, including immune regulation, and cell growth and differentiation.TGF beta 1 is also an important mediator of bone remodeling.TGF beta 1, 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-beta 1, a multifunctional cytokine with fibrogenic properties, has been implicated in the pathogenesis of the vascular and target organ complications of hypertension. TGF-beta 1 may also regulate blood pressure via stimulation of endothelin-1 and/or renin secretion. TGF beta 1 is secreted as a latent form, which consists of its mature form and a latency-associated peptide (beta 1-LAP) in either the presence or the absence of additional latent TGF-beta 1-binding protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	135674
NCBI GeneID	7040
UniProt Accession #	P01137; Q9UCG4; A8K792
Molecular Weight	44,341 Da
NCBI Official Full Name	Transforming growth factor beta-1
NCBI Official Synonym Full Names	transforming growth factor beta 1
NCBI Official Symbol	TGFB1
NCBI Official Synonym Symbols	CED; LAP; DPD1; TGFB; TGFbeta
NCBI Protein Information	transforming growth factor beta-1
UniProt Protein Name	Transforming growth factor beta-1
UniProt Gene Name	TGFB1
UniProt Synonym Gene Names	TGFB; TGF-beta-1; LAP
UniProt Entry Name	TGFB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.