

Rat TGF beta 1 ELISA Kit | TGFB1 elisa kit

Rat TGF beta 1 ELISA Kit

CATALOG # AAA17900	REACTIVITY Rat	APPLICATIONS ELISA
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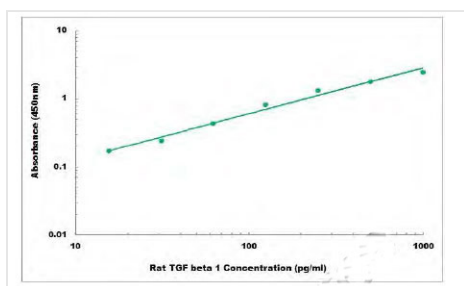
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat TGF beta 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat TGF beta 1 proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	390
Samples	Cell culture supernatants, serum, plasma, tissue homogenates, urine
Sensitivity	< 8 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 Rat TGF beta 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat TGF beta 1 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Rat 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-Rat 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 #	11024652
NCBI GeneID	59086
NCBI Accession #	NP_067589.1
NCBI GenBank Nucleotide #	NM_021578.2
UniProt Accession #	P17246; Q53YM8
Molecular Weight	44,329 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	Tgfb
NCBI Protein Information	transforming growth factor beta-1; TGF-beta-1; transforming growth factor, beta-1
UniProt Protein Name	Transforming growth factor beta-1
UniProt Gene Name	Tgfb1
UniProt Synonym Gene Names	TGF-beta-1; LAP
UniProt Entry Name	TGFB1_RAT

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.