

Rat TGF beta 1 ELISA Kit | TGFB1 elisa kit

Rat TGF beta 1 PicoKine ELISA Kit

CATALOG #
AAA11539

REACTIVITY
Rat

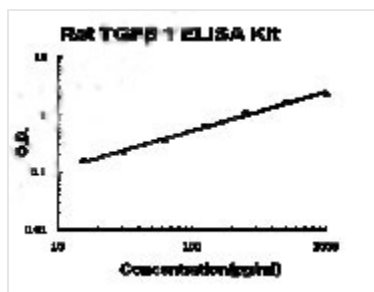
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat TGF β 1
Sequence Length	390
Samples	cell culture supernates, serum, plasma (EDTA) and urine
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	< 1pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFB1 elisa kit	Principle of the Assay: The rat TGF? 1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TGF? 1 has been precoated onto 96-well plates. Standards (Expression system for standard: CHO, Immunogen sequence: A279-S390) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TGF? 1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat TGF? 1 amount of sample captured in plate. 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.TGFBeta1 is known for its potent and diverse biological effects, including immune regulation, and cell growth and differentiation.TGFBeta1 is also an important mediator of bone remodeling.TGFBeta1, 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.TGFBeta1 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? 1 with the molecular mass of 25KDa.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	135677
NCBI GeneID	59086
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.