

Mouse TGF beta 1 ELISA Kit | TGFB1 elisa kit

Mouse TGF beta 1 PicoKine ELISA Kit

CATALOG #
AAA11533

REACTIVITY
Mouse

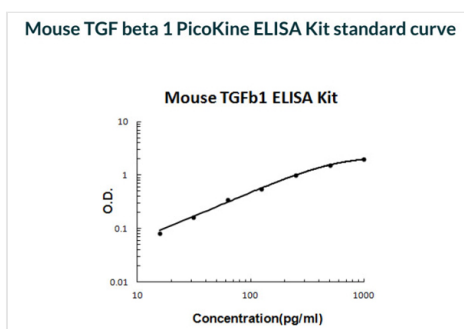
PRODUCT SYNONYMS

TGF beta 1; Mouse 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	Mouse
Specificity	Natural and recombinant Mouse Tgfb1
Sequence Length	390
Samples	Cell culture supernatants, serum, plasma (EDTA) and urine
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<2 pg/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 across 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	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 TGFbeta1 with the molecular mass of 25KDa. Principle of the Assay: The Picokine™ Mouse Tgfb1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Tgfb1 with a 96-well strip plate that is pre-coated with antibody specific for Tgfb1. The detection antibody is a biotinylated antibody specific for Tgfb1. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit includes Mouse Tgfb1 protein as standards. To measure Mouse Tgfb1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Tgfb1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Tgfb1 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	135675
NCBI GeneID	21803
UniProt Accession #	P04202
Molecular Weight	44,310 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; Tgfb-1; TGFbeta1; TGF-beta1
NCBI Protein Information	transforming growth factor beta-1; TGF-beta 1; TGF-beta-1; regulatory protein; 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_MOUSE

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.