

Human LAP(TGF-beta1) ELISA Kit | TGFB1 elisa kit

Human LAP(TGF-beta1) PicoKine ELISA Kit

CATALOG #
AAA45915

REACTIVITY
Human

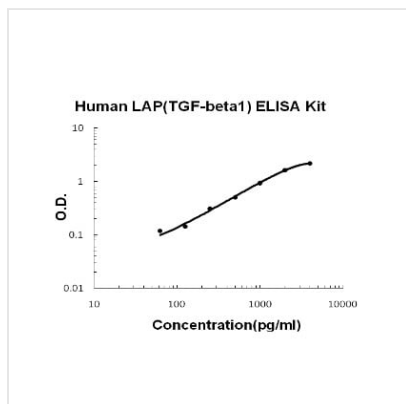
PRODUCT SYNONYMS

LAP(TGF-beta1); Human LAP(TGF-beta1) 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	Human
Specificity	Natural and recombinant human LAP(TGF-beta1)
Sequence Length	390
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 10pg/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)

Human LAP(TGF-beta1) PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for TGFB1 elisa kit	Principle of the assay: human LAP(TGF-beta1) ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for LAP(TGF-beta1) has been precoated onto 96-well plates. Standards(sf21, L30-R278) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for LAP(TGF-beta1) 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 human LAP(TGF-beta1) amount of sample captured in plate. Background: 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. Processing and cleavage of the precursor protein between amino acids 278 and 279 results in the formation of LAP dimers and TGF beta dimers that then non-covalently associate with each other to form the small latent TGF beta complex. LAP is secreted and can be found in the extracellular matrix. In addition, LAP can also be expressed on platelets and activated regulatory T cells.
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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; TGF-beta-1; latency-associated peptide; prepro-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.

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Online datasheet: <https://stage.aaabiotech.com/tgfb1-human-elisa-kits/lap-tgf-beta1/45915>