

Rat Transforming Growth Factor Beta 1 (TGFb1) ELISA Kit | TGFb1 elisa kit

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CATALOG #
AAA137736

REACTIVITY
Rat

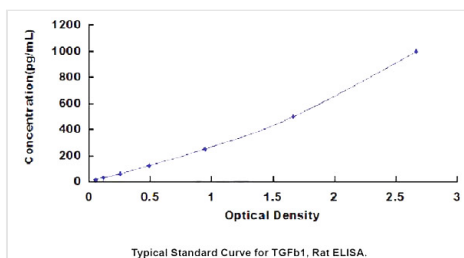
PRODUCT SYNONYMS

Transforming Growth Factor Beta 1 (TGFb1); Rat Transforming Growth Factor Beta 1 (TGFb1) ELISA Kit; TGF-B1; CED; DPD1; LAP; Camurati-Engelmann Disease; Latency-associated peptide; TGFb1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of TGFb1. No significant cross-reactivity or interference between TGFb1 and analogues was observed.
Sequence Length	390
Assay Type	Quantitative Sandwich
Samples	Rat serum, platelet-poor plasma, tissue homogenates, cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	< 6.4pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TGFb1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TGFb1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFb1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TGFb1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TGFb1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TGFb1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of TGFb1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TGFb1 in rat serum, platelet-poor plasma, tissue homogenates, cell culture supernates and other biological fluids.
Product Categories/Family for TGFb1 elisa kit	Cytokine; Tumor immunity; Infection immunity
References	Naringenin alleviate reproductive toxicity evoked by lead acetate via attenuation of sperm profile and biochemical alterations in male Wistar rat: Involvement of TGFbeta/AKT/mTOR pathway; J Biochem Mol Toxicol; 2023 Feb 20:e23335.; PMID: 36807407; Alzahraa A Elhemiely; The Department of Pharmacology, Egyptian Drug Authority, EDA, Formerly NODCAR, Giza, Egypt.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33431110
NCBI GeneID	7040
UniProt Accession #	P01137; Q9UCG4; A8K792
Molecular Weight	44,341 Da
NCBI Official Full Name	transforming growth factor beta 1, partial
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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/transforming-growth-factor-beta-1-tgfb1/137736>