

Mouse Transforming Growth Factor alpha ELISA Kit | TGF-alpha elisa kit

Mouse Transforming Growth Factor alpha ELISA Kit

CATALOG #
AAA102390

REACTIVITY
Mouse

PRODUCT SYNONYMS

Transforming Growth Factor alpha; Mouse Transforming Growth Factor alpha ELISA Kit; TGF-alpha/TGFalpha/TGFA/protransforming growth factor alpha/TFGA/transforming growth factor; alpha/transforming growth factor-alpha; Transforming Growth Factor a; TGF-alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of TF. No significant crossreactivity or interference between TF and analogues was observed.
Sequence Length	13
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TF were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TF were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a TGF- α ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	15.625	31.25	62.5	125	250	500	1000
Y	OD450	0.083	0.155	0.214	0.312	0.606	0.884	1.477	2.392

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGF-alpha elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TF antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TF antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 TF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TF can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	553791
NCBI GeneID	7039
Molecular Weight	17,329 Da
NCBI Official Full Name	transforming growth factor alpha, partial
NCBI Official Synonym Full Names	transforming growth factor alpha
NCBI Official Symbol	TGFA
NCBI Official Synonym Symbols	TFGA
NCBI Protein Information	protransforming growth factor alpha
UniProt Protein Name	Protransforming growth factor alpha
UniProt Gene Name	TGFA
UniProt Synonym Gene Names	TGF-alpha; ETGF
UniProt Entry Name	TGFA_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/tgf-alpha-mouse-elisa-kits/transforming-growth-factor-alpha/102390>