

Human TGF alpha ELISA Kit | TGFA elisa kit

Human TGF alpha PicoKine ELISA Kit

CATALOG #
AAA45208

REACTIVITY
Human

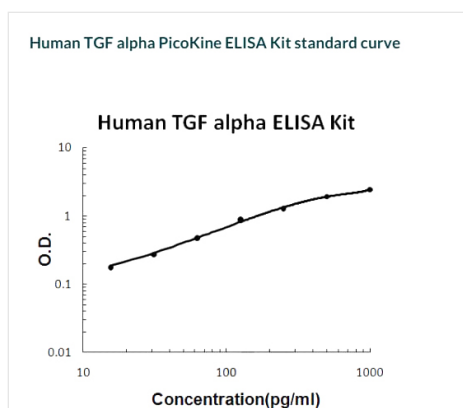
PRODUCT SYNONYMS

TGF alpha; Human TGF alpha PicoKine ELISA Kit; Protransforming growth factor alpha; transforming growth factor; alpha; EGF like TGF; ETGF; OTTHUMP00000203300; OTTHUMP00000203301; OTTHUMP00000203345; OTTHUMP00000203352; RATTGFAA; TGFA; TGF A; TGF type 1; TGFA; Transforming growth factor alpha; Transforming growth factor alpha precursor; Wa1; Waved 1; TGFA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TGFA
Sequence Length	160
Samples	Cell culture supernatants, serum, plasma (heparin, EDTA) and human milk
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<1 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 TGFA elisa kit	Background: Transforming growth factor alpha (TGF-alpha) is upregulated in some human cancers. It is produced in macrophages, brain cells, and keratinocytes, and induces epithelial development. It is closely related to EGF, and can also bind to the EGF receptor with similar effects. TGFalpha stimulates neural cell proliferation in the adult injured brain. Transforming growth factor alpha gene (TGFA) maps to human chromosome 2 close to the breakpoint of the t (2;8) variant translocation in Burkitt lymphoma. Synthetic TGF-alpha was as active as murine epidermal growth factor in binding to the epidermal growth factor receptor and in stimulation of anchorage-dependent and of anchorage-independent growth of normal indicator cells in culture. Synthetic TGF-alpha stimulated plasminogen activator production in A 431 and HeLa cells; the stimulation was similar to that induced by epidermal growth factor. Furthermore, synthetic human TGF-alpha showed similar immunoreactivity when compared with rat TGF-alpha. Thus, the 50-amino acid TGF-alpha is likely to be the bioactive principle produced and secreted by tumor cell lines. Principle of the Assay: The Picokine™ Human TGFA Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human TGFA with a 96-well strip plate that is pre-coated with antibody specific for TGFA. The detection antibody is a biotinylated antibody specific for TGFA. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human TGFA with immunogen: Expression system for standard: E.coli; Immunogen sequence: V40-A89. The kit is analytically validated with ready-to-use reagents. To measure Human TGFA, 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 Human TGFA 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 Human TGFA in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	135689
NCBI GeneID	7039
UniProt Accession #	P01135; Q15577; Q53SK7; Q9BS56; Q9UEI3; Q9UKM1; Q9UKM2; Q9UKM3; A8K286
Molecular Weight	17,329 Da
NCBI Official Full Name	Protransforming growth factor alpha
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; TGF-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.