

Mouse TNF-a ELISA Kit | TNF-a elisa kit

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CATALOG #
AAA309897

REACTIVITY
Mouse

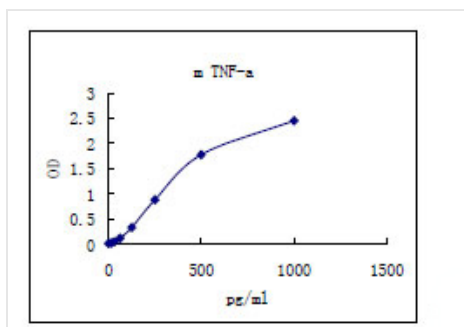
PRODUCT SYNONYMS

TNF-a; Mouse TNF-a ELISA KIT; TNF-a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay recognizes both natural and recombinant human TGF-beta1. The factors listed below were prepared at 100ng/ml in Standard /sample Diluent and assayed for cross-reactivity and no significant cross-reactivity or interference was observed.
Assay Type	Quantitative Sandwich
Sensitivity	4pg/mL.
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF- α elisa kit

Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for TGF- β 1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TGF- β 1 present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for TGF- β 1 is added to the wells and binds to the combination of capture antibody-TGF- β 1 in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps a substrate is added. A coloured product is formed in proportion to the amount of TGF- β 1 present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450nm. A standard curve is prepared from seven TGF- β 1 standard dilutions and TGF- β 1 sample concentration determined!!

Background/Introduction: Transforming growth factor beta (TGF- β) proteins (including the three closely related mammalian isoforms TGF- β 1,-2 and-3) are pleiotropic cytokines that regulate extracellular matrix production, wound healing, immune functions, cell proliferation and differentiation. Transforming growth factor beta (TGF- β) is a TGF- β superfamily that regulates cell growth and differentiation. Besides TGF- β 1 to TGF- β 5, this family also has activins, statins, Mullerian inhibitors (MIS) and bone morphogenetic proteins (BMPs). TGF- β is named after the cytokine converts the phenotype of normal fibroblasts. Tissues that are generally active in cell differentiation often contain higher levels of TGF- β , such as hematopoietic cells of osteoblasts, kidneys, bone marrow, and fetal liver. The level of TGF- β 1 is the highest in human platelets and mammalian bone. TGF- β 1 is present in an inactive state and activated when TGF- β 1 is partially released. TGF- β 1 has dual functions of activation and inhibition. Many TGF- β 1 receptors regulate their biological activities, including receptor I (53-65KD), receptor II (83-110KD), receptor III (250-310KD), receptor IV (60KD), and receptor V (400KD). TGF- β is a dimer formed by two disulfide bonds of the same or similar molecular weight of 12.5 kDa. The rat TGF- β 1 precursor cDNA encodes a 390 amino acid residue comprising a 29 amino acid residue signal peptide and a 361 amino acid residue precursor protein. The precursor protein is hydrolyzed by furin to form a potentially related peptide with an N-terminal 249 amino acid residue and a C-terminal 112 amino acid residue mature TGF- β 1. The biological function of TGF- β is mainly in inflammation, tissue repair and embryo development. TGF- β plays an important role in regulating cell growth, differentiation and immune function. TGF- β can inhibit the proliferation of immunocompetent cells, lymphocyte differentiation and cytokine production (such as IFN- γ and TNF- α production in PBMC).

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/mouse-elisa-kits/tnf-a/309897>