

TNF alpha elisa kit

Murine TNF alpha ELISA Kit

CATALOG #
AAA58598

REACTIVITY
Murine. No cross reactivity with other murine cytokines.

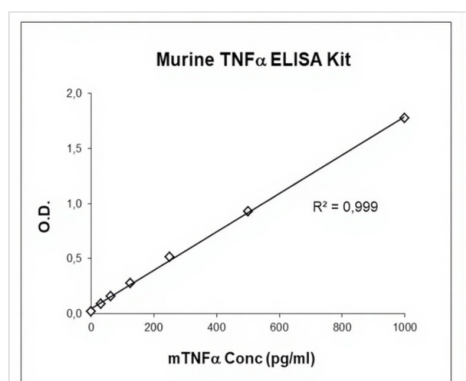
PRODUCT SYNONYMS

TNF alpha; Murine TNF alpha ELISA Kit; TNF- α ; TNF alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Murine. No cross reactivity with other murine cytokines.
Specificity	The assay recognizes both natural and recombinant murine TNFalpha and rat TNFalpha. To define the specificity of this ELISA several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested: human TNFalpha, murine IL-2, murine IL-6, murine IL-10, murine IL-23, murine IFNgamma, murine GM-CSF, murine CD138.
Sequence Length	233
Assay Type	Qualitative Sandwich
Samples	Supernatants, buffered solutions or serum and plasma samples
Sensitivity	10.7 pg/ml
Intra-assay Precision	Reproducibility within the assay was evaluated in three independent experiments. Each assay was carried out with 6 replicates (3 duplicates) of samples containing different concentrations of TNFalpha: 2 in murine pooled Serum, 2 in Culture Media and 2 in Standard Diluent. Data below show the mean mTNFalpha concentration and the coefficient of variation for each sample.
Inter-assay Precision	Assay to assay reproducibility within one laboratory was evaluated in three independent experiments. Each assay was carried out with 6 replicates (3 duplicates) of samples containing different concentrations of mTNFalpha: 2 in murine pooled Serum, 2 in Culture Media and 2 in Standard Diluent. Data below show the mean mTNFalpha concentration and the coefficient of variation for each sample.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF alpha elisa kit	Principle of the Assay: A capture Antibody highly specific for mTNFalpha has been coated to the wells of the microtiter strip plate provided during manufacture. Binding of mTNFalpha samples and known standards to the capture antibodies and subsequent binding of the Biotinylated anti-mTNFalpha secondary antibody to the analyte is completed during the same incubation period. Any excess unbound analyte and secondary antibody is removed. The HRP conjugate solution is then added to every well including the zero wells, following incubation excess conjugate is removed by careful washing. A chromogen substrate is added to the wells resulting in the progressive development of a blue coloured complex with the conjugate. The colour development is then stopped by the addition of acid turning the resultant final product yellow. The intensity of the produced coloured complex is directly proportional to the concentration of mTNFalpha present in the samples and standards. The absorbance of the colour complex is then measured and the generated OD values for each standard are plotted against expected concentration forming a standard curve. This standard curve can then be used to accurately determine the concentration of mTNFalpha in any sample tested. Intended Uses: The Murine TNFalpha ELISA kit is a solid phase sandwich ELISA for the in-vitro qualitative and quantitative determination of murine TNFalpha (mTNFalpha) in supernatants, buffered solutions or serum and plasma samples. This assay will recognise both natural and recombinant mTNFalpha.
Product Categories/Family for TNF alpha elisa kit	Mouse ELISA Kit
References	Campolo, M. et al., J. Leukoc. Biol.,2013;93:277-287 Di Paola, R. et al.,J. Leukoc. Biol,2010; 88: 291-301 Esposito, E. et al., J Leukoc Biol.,2007; 81: 1032 - 1043

NCBI AND UNIPROT INFORMATION

NCBI GI #	37210
NCBI GeneID	7124
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
Molecular Weight	25,644 Da
NCBI Official Full Name	TNF-alpha
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNF-alpha
NCBI Protein Information	tumor necrosis factor
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_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/murine-elisa-kits/tnf-alpha/58598>