

TNF alpha elisa kit

Human TNF alpha ELISA Kit

CATALOG # AAA58614	REACTIVITY Human. No cross reactivity with other human cytokines. Cross reactivity with macac TNF-a. No interference with soluble TNFR I and TNFR II.
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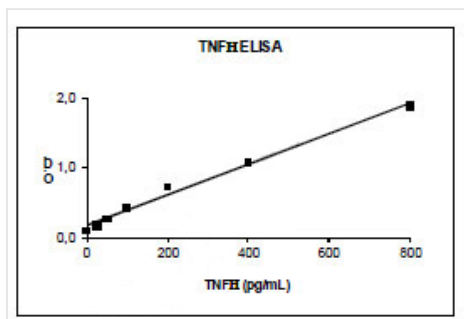
PRODUCT SYNONYMS

TNF alpha; Human TNF alpha ELISA Kit; TNF-a; TNF alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human. No cross reactivity with other human cytokines. Cross reactivity with macac TNF-a. No interference with soluble TNFR I and TNFR II.
Specificity	This assay recognises both natural and recombinant human TNFalpha. To assess the specificity of this TNFalpha ELISA, several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested (IL-1beta, IL-6, IL-12, IL-4, IL-2, IFNgamma, IL-10, IL-8, and IL-13).
Sequence Length	233
Samples	Supernatants, buffered solutions or serum and plasma samples
Assay Type	Qualitative Sandwich
Sensitivity	< 8pg/ml
Intra-assay Precision	Reproducibility within the assay was evaluated in three independent experiments by one analyst. Each assay was carried out with 6 replicates (3 duplicates) of 3 spiked serum or human pooled serum samples and 2 supernatants containing different concentrations of TNFalpha. Data below shows the mean TNFalpha concentration and the coefficient of variation for each sample. The overall intra-assay coefficient of variation has been calculated to be 3.2%.
Inter-assay Precision	Assay to assay reproducibility within one laboratory was evaluated in three independent experiments by two analysts. Each assay was carried out with 6 replicates of 3 spiked serum or human pooled serum samples and 2 supernatants containing different concentrations of TNFalpha. The calculated overall coefficient of variation was 10.9%.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNF alpha elisa kit	Intended Uses: The TNFalpha ELISA kit is a solid phase sandwich ELISA for the in-vitro qualitative and quantitative determination of TNFalpha in supernatants, buffered solutions or serum and plasma samples. This assay will recognise both natural and recombinant human TNFalpha. Principle of the Assay: A capture Antibody highly specific for TNFalpha has been coated to the wells of the microtitre strip plate provided during manufacture. Binding of TNFalpha samples and known standards to the capture antibodies and subsequent binding of the biotinylated anti-TNFalpha 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 TNFalpha 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 TNFalpha in any sample tested.
Product Categories/Family for TNF alpha elisa kit	Human ELISA Kit
References	Angelot, F. et al., Haematologica,2009; 94(11): 1502-1512. Anim-Nyame, N. et al.,Cardiovasc Res.,2003; 58(1): 162-169. Arduise, C. et al., J. Immunol.,2008; 181(10): 7002-7013.

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/human-elisa-kits/tnf-alpha/58614>