

TNF alpha elispot kit

Human TNF alpha ELISpot Kit

CATALOG #	REACTIVITY
AAA58638	Human. No cross reactivity with other human cytokines. Cross reactivity with macac TNF-a. No interference with TNFR I and TNFR II

PRODUCT SYNONYMS

TNF alpha; Human TNF alpha ELISpot Kit; TNF-a; TNF alpha elispot kit

PRODUCT SPECIFICATIONS

Reactivity	Human. No cross reactivity with other human cytokines. Cross reactivity with macac TNF-a. No interference with TNFR I and TNFR II
Specificity	The assay recognizes natural Human TNFalpha. To define specificity of this TNFalpha antibody pair, several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested (IL-1beta, IL-2, IL-4, IL-6, IL-10, IL-12, IFNgamma, IL-8 and IL-13). This testing was performed using the equivalent Human TNFalpha antibody pair in an ELISA assay.
Sequence Length	233
Assay Type	Sandwich

ADDITIONAL INFORMATION

Related Product Information for TNF alpha elispot kit	Principle of the Assay: A capture antibody highly specific for the analyte of interest is coated to the wells of a PVDF bottomed 96 well microtiter plate either during kit manufacture or in the laboratory. The plate is then blocked to minimise any non-antibody dependent unspecific binding and washed. Cell suspension and stimulant are added and the plate incubated allowing the specific antibodies to bind any analytes produced. Cells are then removed by washing prior to the addition of Biotinylated detection antibodies which bind to the previously captured analyte. Enzyme conjugated streptavidin is then added binding to the detection antibodies. Following incubation and washing substrate is then applied to the wells resulting in coloured spots which can be quantified using appropriate analysis software or manually using a microscope. Intended Uses: ELISpot is a highly specific immunoassay for the analysis of cytokine and other soluble molecule production and secretion from T-cells at a single cell level in conditions closely comparable to the in-vivo environment with minimal cell manipulation. This technique is designed to determine the frequency of cytokine producing cells under a given stimulation and the comparison of such frequency against a specific treatment or pathological state. The ELISpot assay constitutes an ideal tool in the investigation of Th1 / Th2 responses, vaccine development, viral infection monitoring and treatment, cancerology, infectious disease, autoimmune diseases and transplantation. Utilising sandwich immuno-enzyme technology, ELISpot assays can detect both secreted cytokines and single cells that simultaneously produce multiple cytokines. Cell secreted cytokines or soluble molecules are captured by coated antibodies avoiding diffusion in supernatant, protease degradation or binding on soluble membrane receptors. After cell removal, the captured cytokines are revealed by tracer antibodies and appropriate conjugates.
Product Categories/Family for TNF alpha elispot kit	Human ELISpot Kit
References	Godard B. et al., Hum. Immunol., 2004; 65(11): 1307-18 Hudak, S. et al., J Immunol., 2002; 169(3): 1189-96.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37210
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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-elispot-kits/tnf-alpha/58638>