

IL-4 elispot kit

Human IL-4 ELISpot Kit

CATALOG #
AAA58637

REACTIVITY
Human. No cross reactivity with other human cytokines.

PRODUCT SYNONYMS

IL-4; Human IL-4 ELISpot Kit; IL-4 elispot kit

PRODUCT SPECIFICATIONS

Reactivity	Human. No cross reactivity with other human cytokines.
Specificity	The assay recognizes natural human IL-4. To define specificity, several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested (IL-1alpha, IL-1beta, IL-10 IL-12, IFNgamma, IL-2, IL-6, TNFalpha, IL-8 and IL-13) This testing was performed using the equivalent human IL-4 antibody pair in an ELISA assay.
Sequence Length	133
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.

ADDITIONAL INFORMATION

Related Product Information for IL-4 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 microtitre 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.
Product Categories/Family for IL-4 elispot kit	Human ELISpot Kit
References	Hudak S. et al., J. Immuno., 2002; 169(3): 1189 - 1196 Sauce D. et al., Blood, 2002; 99(4) : 1165 - 1173

NCBI AND UNIPROT INFORMATION

NCBI GI #	55742622
NCBI GeneID	397225
NCBI Accession #	NP_999288.1
NCBI GenBank Nucleotide #	NM_214123.1

Molecular Weight	15,023 Da
NCBI Official Full Name	interleukin-4
NCBI Official Symbol	IL4
NCBI Protein Information	interleukin-4
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_PIG

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/human-elispot-kits/il-4/58637>