

IFN gamma elispot kit

Murine IFN gamma ELISpot Kit

CATALOG #
AAA58630

REACTIVITY
Murine. No cross reactivity with other murine cytokines.

PRODUCT SYNONYMS

IFN gamma; Murine IFN gamma ELISpot Kit; IFN-g; IFN gamma elispot kit

PRODUCT SPECIFICATIONS

Reactivity	Murine. No cross reactivity with other murine cytokines.
Sequence Length	155
Assay Type	Sandwich

ADDITIONAL INFORMATION

Related Product Information for IFN gamma elispot kit	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. Principle of the Assay Capture antibodies highly specific for the analyte of interest are 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 finally washed before adding the cells to be investigated. Cell suspension and stimulant are added to the coated and blocked microtitre plate and the plate incubated allowing the specific antibodies to bind any analytes produced. Biotinylated detection antibodies are then added which bind to the previously captured analyte. Enzyme conjugated Streptavidin is added binding to the detection antibodies. Any excess unbound analyte and antibodies are removed by careful washing. Colour substrate is then applied to the wells resulting in coloured spots which can be quantified using appropriate analysis software or manually using microscopes.
Product Categories/Family for IFN gamma elispot kit	Murine ELISpot Kit
References	Adotevi, O.et al., Blood,2010; 115(15): 3025-3032 Bonduelle, O. et al., J. Immunol., 2012; 188: 952 - 956 Chen A. et al., J. Virol., 2005; 79(9): 5568 - 5576

NCBI AND UNIPROT INFORMATION

NCBI GI #	33468859
NCBI GeneID	15978
NCBI Accession #	NP_032363.1
NCBI GenBank Nucleotide #	NM_008337.3

UniProt Accession #	P01580; Q542B8
Molecular Weight	17,907 Da
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon gamma
NCBI Official Symbol	Ifng
NCBI Official Synonym Symbols	Ifg; IFN-g
NCBI Protein Information	interferon gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	Ifng
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_MOUSE

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-elispot-kits/ifn-gamma/58630>