

Monkey IFN-gamma (Interferon Gamma) ELISA Kit | IFN-gamma elisa kit

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CATALOG #
AAA250775

REACTIVITY
Monkey

PRODUCT SYNONYMS

IFN-gamma (Interferon Gamma); Monkey IFN-gamma (Interferon Gamma) ELISA Kit; IFN-gamma; IFNG; IFG; IFI; Type II Interferon; IFN-gamma elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Monkey
Specificity	This assay has high sensitivity and excellent specificity for detection of IFN-gamma. No significant cross-reactivity or interference between IFN-gamma and analogues were observed.
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	6.25-400pg/ml
Sensitivity	3.75pg/ml
Intra-assay Precision	CV<8%
Inter-assay Precision	CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

ADDITIONAL INFORMATION

Related Product Information for IFN-gamma elisa kit

Background: Interferon-gamma (IFN-gamma), also known as type II or immune interferon, exerts a wide range of immunoregulatory activities and is considered to be the prototype proinflammatory cytokine. Monkey IFNgamma exists as a noncovalently linked homodimer of 20-25 kDa variably glycosylated subunits. It shares 90% amino acid sequence identity with human IFN-gamma, 57-66% with bovine, canine, equine, feline, and porcine IFN-gamma, and 37-44% with cotton rat, mouse, and rat IFN- gamma. IFN- gamma dimers bind to IFN-gamma RI (alpha subunits) which then interact with IFN-gamma RII (beta subunits) to form the functional receptor complex of two alpha and two beta subunits. Inclusion of IFN-gamma RII increases the binding affinity for ligand and the efficiency of signal transduction. IFN-gamma is produced by a variety of immune cells under inflammatory conditions, notably by T cells and NK cells. It plays a key role in host defense by promoting the development and activation of Th1 cells, chemoattraction and activation of monocytes and macrophages, upregulation of antigen presentation molecules, and immunoglobulin class switching in B cells. It also exhibits antiviral, antiproliferative, and apoptotic effects. In addition, IFN -gamma functions as an antiinflammatory mediator by promoting the development of regulatory T cells and inhibiting Th17 cell differentiation. The pleiotropic effects of IFN-gamma contribute to the development of multiple aspects of atherosclerosis.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was precoated onto 96-well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin (HRP-SA) and Biotin System (BS) was added and unbound conjugates were washed away with wash buffer. Then by twice signal amplification, TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	567316186
NCBI GeneID	102128291
NCBI Accession #	NP_001274586.1
NCBI GenBank Nucleotide #	NM_001287657.1
UniProt Accession #	P63309; P42163; P42164
Molecular Weight	19,332 Da
NCBI Official Full Name	interferon gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFN-gamma
NCBI Protein Information	interferon gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma

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/ifn-gamma-monkey-elisa-kits/ifn-gamma-interferon-gamma/250775>