

Canine Interferon Gamma ELISA Kit | IFN-gamma elisa kit

Canine Interferon Gamma ELISA Kit

CATALOG #
AAA17644

REACTIVITY
Canine

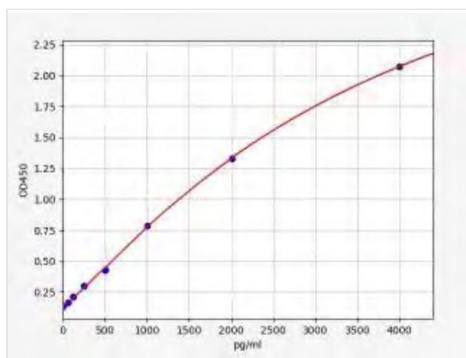
PRODUCT SYNONYMS

Interferon Gamma; Canine Interferon Gamma ELISA Kit; IFN-gamma elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	Specifically recognize IFN-gamma, no obvious cross reaction with other analogues
Sequence Length	166
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	62.5-4000pg/ml
Sensitivity	37.5pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IFN-gamma elisa kit	Background: IFNgamma, also known as Interferon gamma or type II interferon, is a cytokine primarily produced by activated T cells and natural killer cells. It can stimulate various immune cells, such as macrophages, B cells, and NK cells, and has important immunoregulatory functions. IFNgamma can not only induce cellular antiviral responses, but also promote inflammatory reactions, enhance MHC molecule expression, induce apoptosis of tumor cells, and promote class switching of antibodies. IFNgamma plays an important role in immune responses. It can regulate the proliferation, differentiation, survival, and function of immune cells by activating various signaling pathways, and is closely related to the occurrence and development of various autoimmune diseases, infectious diseases, tumors, and other diseases. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti IFN-gamma antibody was precoated onto the 96-well plate. The biotin conjugated anti IFN-gamma antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with IFN-gamma conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of IFN-gamma in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	56786138
NCBI GeneID	3458
NCBI Accession #	NP_000610.2
NCBI GenBank Nucleotide #	NM_000619.2
Molecular Weight	19,348 Da
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon, gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFG; IFI
NCBI Protein Information	interferon gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_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.