

Rat IFN-gamma CLIA Kit | IFN-gamma clia kit

IFN-gamma (Rat) LumiAb ELISA Kit

CATALOG #
AAA318585

REACTIVITY
Rat

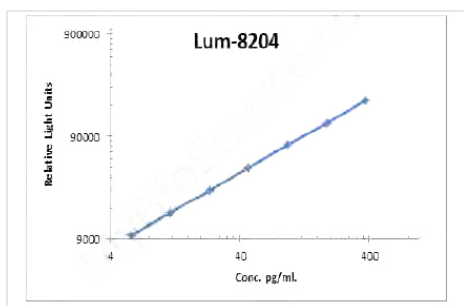
PRODUCT SYNONYMS

IFN-gamma; IFN-gamma (Rat) LumiAb ELISA Kit; Rat IFN-gamma; Interferon gamma; IFN-gamma clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The LumiAb Rat EGF ELISA is capable of recognizing both recombinant and naturally produced Rat EGF proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	156
Assay Type	Quantitative Sandwich
Sensitivity	4 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IFN-gamma clia kit	Principle of the Assay: The LumiAb Rat EGF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Rat EGF concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Rat EGF while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Rat EGF, also known as Epidermal Growth Factor, is a 1133 amino acid cytokine protein encoded by the Egf gene located at locus 2q42-2q43 on chromosome 2. Initially synthesized as a propeptide, it undergoes proteolytic processing of the 21 residue signal sequence and the 1112 pro-EGF, thus creating the 53 residue EGF protein. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. It is a magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. EGF Interacts with EGFR and promotes EGFR dimerization. Furthermore, it interacts with RHBDF1 and may retain EGF in the endoplasmic reticulum to regulate its degradation through the endoplasmic reticulum-associated degradation (ERAD). It contains 9 EGF-like domains and 9 LDL-receptor class B repeats.
Product Categories/Family for IFN-gamma clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	20302055
NCBI GeneID	25712
NCBI Accession #	NP_620235.1
NCBI GenBank Nucleotide #	NM_138880.2
UniProt Accession #	P01581
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon gamma
NCBI Official Symbol	Ifng
NCBI Official Synonym Symbols	IFNG2
NCBI Protein Information	interferon gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	Ifng
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_RAT

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/rat-clia-kits/ifn-gamma/318585>