

Rat IL-1beta CLIA Kit | IL-1beta clia kit

IL-1beta (Rat) LumiAb ELISA Kit

CATALOG #
AAA318586

REACTIVITY
Rat

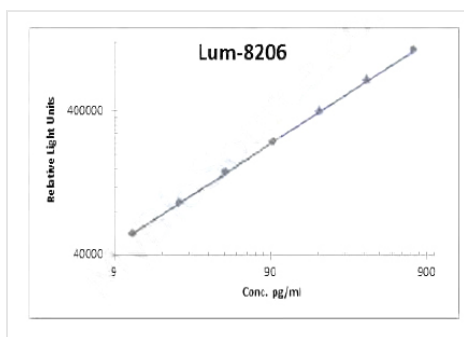
PRODUCT SYNONYMS

IL-1beta; IL-1beta (Rat) LumiAb ELISA Kit; Rat IL-1beta; Interleukin-1 beta; IL-1 beta; IL-1beta clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The LumiAb Rat IFN-gamma ELISA is capable of recognizing both recombinant and naturally produced Rat IFN-gamma proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 5% cross reactivity.
Sequence Length	268
Assay Type	Quantitative Sandwich
Sensitivity	5 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1beta clia kit	Principle of the Assay: The LumiAb Rat IFN-gamma Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Rat IFN-gamma 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 IFN-gamma 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 IFN-gamma or Interferon-gamma is a 156 amino acid cytokine encoded by the Ifng gene located at locus 7q22 on chromosome 7. After initial synthesis of the peptide, the 22 residue signal sequence is cleaved, allowing the 134 residue IFN-gamma protein to fold properly. Produced by lymphocytes activated by specific antigens or mitogens, IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. The homodimeric cytokine of the type gamma interferon family is a potent activator of macrophages, has anti-proliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. IFN-gamma is primarily released from activated T-cells.
Product Categories/Family for IL-1beta clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	2497335
NCBI GeneID	24494
UniProt Accession #	Q63264
NCBI Official Full Name	Interleukin-1 beta
NCBI Official Synonym Full Names	interleukin 1 beta
NCBI Official Symbol	IL1b
NCBI Official Synonym Symbols	IL-1F2
NCBI Protein Information	interleukin-1 beta
UniProt Protein Name	Interleukin-1 beta
UniProt Gene Name	IL1b
UniProt Synonym Gene Names	IL-1 beta
UniProt Entry Name	IL1B_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/il-1beta/318586>