

Human IL-13 CLIA Kit | IL-13 clia kit

IL-13 (Human) LumiAb ELISA Kit

CATALOG #
AAA318534

REACTIVITY
Human

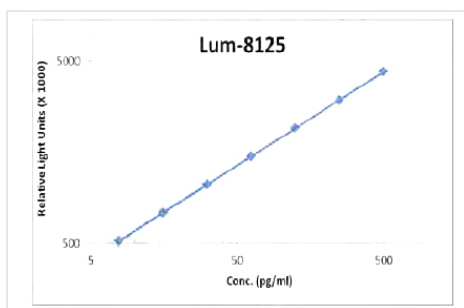
PRODUCT SYNONYMS

IL-13; IL-13 (Human) LumiAb ELISA Kit; Human IL-13; Interleukin-13; NC30; IL-13 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-12 ELISA is capable of recognizing both recombinant and naturally produced Human IL-12 proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	146
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-13 clia kit	Principle of the Assay: The LumiAb Human IL-12 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-12 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 Human IL-12 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: Human IL-12 or Interleukin-12, also known as Natural Killer Cell Stimulatory Factor is composed of 2 subunits, encoded by the IL12A and IL12B genes located at loci 3q25.33-3q26 and 5q31.1-5q33.1 on chromosome 3 and 5, respectively. Composed of 2 subunits at 219 and 328 residues, respectively, the IL-12 heterodimeric cytokine can act as a growth factor for activated T-and NK-cells, enhance the lytic activity of NK/lymphokine-activated killer cells and stimulate the production of IFN-gamma by resting PBMC. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric Oxide Synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. The 2nd subunit of IL-12 can associate with IL-23A to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL-12RB1 and IL23R, activates the JAK-STAT signaling cascade, stimulates memory rather than naïve T-cells and promotes the production of pro-inflammatory cytokines. Furthermore, defects in IL-12B are a cause of Mendellian susceptibility to mycobacterial disease; also known as familial disseminated atypical mycobacterial infection while genetic variations in IL-12B are a cause of susceptibility to psoriasis type 11 (PSORS11).
Product Categories/Family for IL-13 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	26787978
NCBI GeneID	3596
NCBI Accession #	NP_002179.2
NCBI GenBank Nucleotide #	NM_002188.3
UniProt Accession #	P35225
NCBI Official Full Name	interleukin-13 isoform 1
NCBI Official Synonym Full Names	interleukin 13
NCBI Official Symbol	IL13
NCBI Official Synonym Symbols	P600; IL-13
NCBI Protein Information	interleukin-13
UniProt Protein Name	Interleukin-13
UniProt Gene Name	IL13
UniProt Synonym Gene Names	NC30; IL-13
UniProt Entry Name	IL13_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.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/il-13/318534>