

Human IL-1alpha CLIA Kit | IL-1alpha clia kit

IL-1alpha (Human) LumiAb ELISA Kit

CATALOG #
AAA318538

REACTIVITY
Human

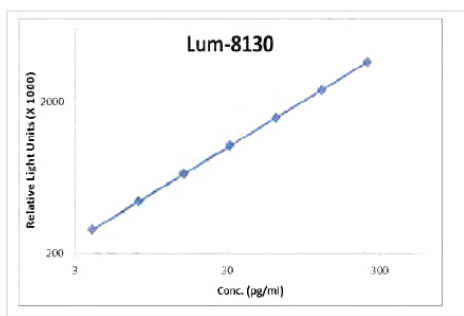
PRODUCT SYNONYMS

IL-1alpha; IL-1alpha (Human) LumiAb ELISA Kit; Human IL-1alpha; Interleukin-1 alpha; Hematopoietin-1; IL1F1; IL-1alpha clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-17F ELISA is capable of recognizing both recombinant and naturally produced Human IL-17F proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	271
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-1alpha clia kit	Principle of the Assay: The LumiAb Human IL-17F Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-17F 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-17F 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-17F, also known as IL-24, is a 163 amino acid cytokine protein that is encoded by the IL17F gene located at locus 6p12 on chromosome 6. After initial synthesis of IL-17F, the protein undergoes proteolytic processing to remove the 30 residue signal sequence from the pre-protein, allowing for the full maturation and folding of IL-17F. IL-17F is expressed by activated CD4+ T-cells and monocytes, and has been shown to regulate cartilage matrix turnover as well as stimulate the production of several other cytokines, including IL-6, IL-8 and CSF2/GM-CSF. Aside from these, the cytokine also has been known to stimulate PBMC and T-cell proliferation. Moreover, this cytokine has been found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL-2, TGFB1/TGFB and monocyte chemoattractant protein-1.
Product Categories/Family for IL-1alpha clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	27894330
NCBI GeneID	3552
NCBI Accession #	NP_000566.3
NCBI GenBank Nucleotide #	NM_000575.4
UniProt Accession #	P01583
NCBI Official Full Name	interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
NCBI Protein Information	interleukin-1 alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha
UniProt Entry Name	IL1A_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.