

Human IL-6 CLIA Kit | IL-6 clia kit

IL-6 (Human) LumiAb ELISA Kit

CATALOG #
AAA318546

REACTIVITY
Human

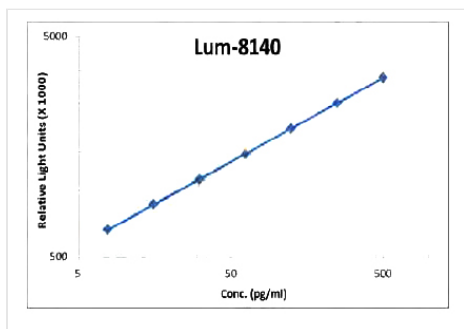
PRODUCT SYNONYMS

IL-6; IL-6 (Human) LumiAb ELISA Kit; Human IL-6; Interleukin-6; B-cell stimulatory factor 2; CTL differentiation factor; Hybridoma growth factor; Interferon beta-2; CDF; BSF-2; IL-6 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-5 ELISA is capable of recognizing both recombinant and naturally produced Human IL-5 proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	212
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-6 clia kit	Principle of the Assay: The LumiAb Human IL-5 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-5 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-5 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-5 or Interleukin-5, also known as T-Cell Replacing Factor or TRF, is a 134 amino acid cytokine protein encoded by the IL5 gene located at locus 5q31.1 on chromosome 5. After initial synthesis, the IL-5 precursor undergoes proteolytic processing to remove the 19 residue signal sequence from its N-terminal of the IL-5 chain, allowing for the protein to properly fold and mature. IL-5 mainly acts as a growth and differentiation factor for both B-cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for Interleukin 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). The IL5 gene, along with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5 where this cytokine, IL-4, and IL-13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kb on chromosome 5q31.
Product Categories/Family for IL-6 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	124347
NCBI GeneID	3569
UniProt Accession #	P05231
NCBI Official Full Name	Interleukin-6
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	CDF; HGF; HSF; BSF2; IL-6; BSF-2; IFNB2; IFN-beta-2
NCBI Protein Information	interleukin-6
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IFNB2; IL-6; BSF-2; CDF; IFN-beta-2
UniProt Entry Name	IL6_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.