

Human IL-17A CLIA Kit | IL-17A clia kit

IL-17A (Human) LumiAb ELISA Kit

CATALOG #
AAA318535

REACTIVITY
Human

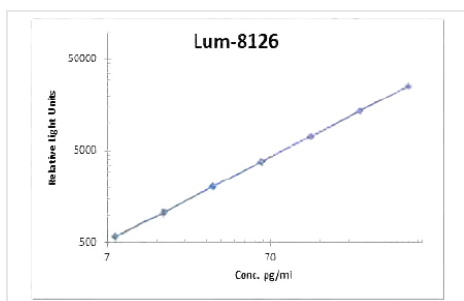
PRODUCT SYNONYMS

IL-17A; IL-17A (Human) LumiAb ELISA Kit; Human IL-17A; Interleukin-17A; Cytotoxic T-lymphocyte-associated antigen 8; CTLA-8; IL17; IL-17A clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-13 ELISA is capable of recognizing both recombinant and naturally produced Human IL-13 proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	155
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-17A clia kit	Principle of the Assay: The LumiAb Human IL-13 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-13 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-13 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-13, also known as Interleukin-13, is a 146 amino acid cytokine protein expressed from the IL13 gene located at locus 5q31 on chromosome 5. After initial synthesis, the IL-13 pre-protein undergoes proteolytic cleavage, thus separating the 24 residue signal sequence from the actual 122 residue IL-13 protein, allowing for proper folding and maturation of the cytokine. IL-13, an immunoregulatory cytokine, is produced primarily by activated Th2 cells and is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression while promoting IgE isotype switching of B-cells. IL-13 also down-regulates macrophage activity, thereby inhibiting the production of proinflammatory cytokines and chemokines. In addition, this particular cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. The IL13 gene along with IL3, IL5, IL4 and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4. From an epidemiological standpoint, defects in IL-13 may cause susceptibility to allergic rhinitis (ALRH), a common disease of complex inheritance and is characterized by mucosal inflammation caused by allergen exposure.
Product Categories/Family for IL-17A clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504651
NCBI GeneID	3605
NCBI Accession #	NP_002181.1
NCBI GenBank Nucleotide #	NM_002190.3
UniProt Accession #	Q16552
NCBI Official Full Name	interleukin-17A
NCBI Official Synonym Full Names	interleukin 17A
NCBI Official Symbol	IL17A
NCBI Official Synonym Symbols	IL17; CTLA8; IL-17; CTLA-8; IL-17A
NCBI Protein Information	interleukin-17A
UniProt Protein Name	Interleukin-17A
UniProt Gene Name	IL17A
UniProt Synonym Gene Names	CTLA8; IL17; IL-17; IL-17A; CTLA-8
UniProt Entry Name	IL17_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.

