

Human IL-31 CLIA Kit | IL-31 clia kit

IL-31 (Human) LumiAb ELISA Kit

CATALOG #
AAA318543

REACTIVITY
Human

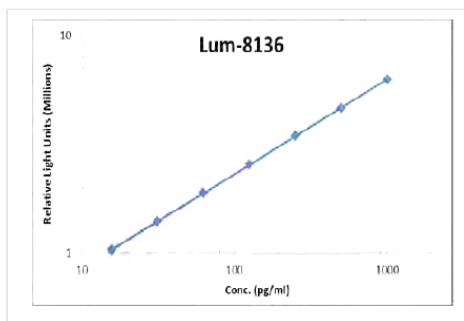
PRODUCT SYNONYMS

IL-31; IL-31 (Human) LumiAb ELISA Kit; Human IL-31; Interleukin-31; IL-31 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-3 ELISA is capable of recognizing both recombinant and naturally produced Human IL-3 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	164
Assay Type	Quantitative Sandwich
Sensitivity	15 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-31 clia kit	Principle of the Assay: The LumiAb Human IL-3 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-3 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-3 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-3 or Interleukin-3, alternatively known as Hematopoietic Growth Factor or Mast Cell Growth Factor, is a 152 amino acid cytokine protein capable of supporting the proliferation of a broad range of hematopoietic cell types. The IL-3 monomeric protein is expressed from the IL-3 gene located at locus 5q31.1 on chromosome 5. After initial synthesis of the premature IL-3 protein, it undergoes proteolytic cleavage to remove the 19 residue signal sequence from the 133 residue IL-3 peptide, allowing it to properly fold into a mature protein. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. IL-3 has been known to possess neurotrophic activity, and may be associated with neurologic disorders. Typically, granulocyte or macrophage colony-stimulating factors (CSF) are cytokines that act in hematopoiesis by controlling the production, differentiation and function of 2 related white cell populations in the blood, the granulocytes and monocytes-macrophages. This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.
Product Categories/Family for IL-31 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	62122911
NCBI GeneID	386653
NCBI Accession #	NP_001014358.1
NCBI GenBank Nucleotide #	NM_001014336.1
UniProt Accession #	Q6EBC2
NCBI Official Full Name	interleukin-31
NCBI Official Synonym Full Names	interleukin 31
NCBI Official Symbol	IL31
NCBI Official Synonym Symbols	IL-31
NCBI Protein Information	interleukin-31
UniProt Protein Name	Interleukin-31
UniProt Gene Name	IL31
UniProt Synonym Gene Names	IL-31
UniProt Entry Name	IL31_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.