

Human IP-10 CLIA Kit | IP-10 clia kit

IP-10 (Human) LumiAb ELISA Kit

CATALOG #
AAA318547

REACTIVITY
Human

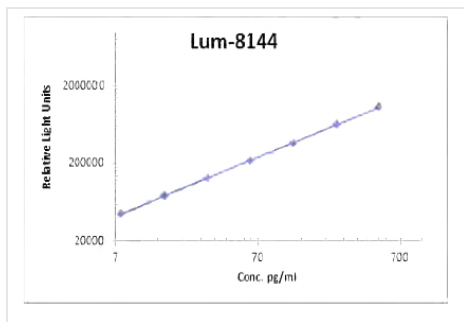
PRODUCT SYNONYMS

IP-10; IP-10 (Human) LumiAb ELISA Kit; Human IP-10; C-X-C motif chemLumine 10; 10 kDa interferon gamma-induced protein; Gamma-IP10; Small-inducible cytLumine B10; INP10; SCYB10; IP-10 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-6 ELISA is capable of recognizing both recombinant and naturally produced Human IL-6 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	98
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 IP-10 clia kit	Principle of the Assay: The LumiAb Human IL-6 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-6 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-6 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-6 or Interleukin-6, also known as B-Cell Stimulatory Factor 2, is a 212 amino acid cytokine protein with a wide variety of biological functions. Expressed from the IL6 gene, the IL-6 protein is a potent inducer of the acute phase response, plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation, induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Typically, IL-6 is known to act on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acting as a myokine, IL-6 is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance. In addition, the IL-6 cytokine has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin-6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis.
Product Categories/Family for IP-10 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	149999382
NCBI GeneID	3627
NCBI Accession #	NP_001556.2
NCBI GenBank Nucleotide #	NM_001565.4
UniProt Accession #	P02778
NCBI Official Full Name	C-X-C motif chemokine 10
NCBI Official Synonym Full Names	C-X-C motif chemokine ligand 10
NCBI Official Symbol	CXCL10
NCBI Official Synonym Symbols	C7; IFI10; INP10; IP-10; crg-2; mob-1; SCYB10; gIP-10
NCBI Protein Information	C-X-C motif chemokine 10
UniProt Protein Name	C-X-C motif chemokine 10
UniProt Gene Name	CXCL10
UniProt Synonym Gene Names	INP10; SCYB10; Gamma-IP10; IP-10
UniProt Entry Name	CXL10_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.