

Human IL-23 CLIA Kit | IL-23 clia kit

IL-23 (Human) LumiAb ELISA Kit

CATALOG #
AAA318595

REACTIVITY
Human

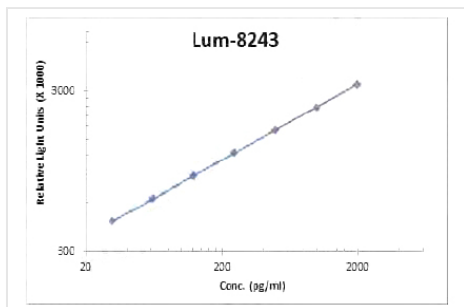
PRODUCT SYNONYMS

IL-23; IL-23 (Human) LumiAb ELISA Kit; Human IL-23; Interleukin-23 subunit alpha/beta; Interleukin-23 subunit p19/p40; NK cell stimulatory factor chain 1/2; IL-23 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-21 ELISA is capable of recognizing both recombinant and naturally produced Human IL-21 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	189
Assay Type	Quantitative Sandwich
Sensitivity	11 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-23 clia kit	Principle of the Assay: The LumiAb Human IL-21 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-21 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-21 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-21 or Interleukin-21, also known as Za11, is a 155 amino acid cytokine protein with immunoregulatory activity synthesized from the IL21 gene located at locus 4q26-4q27 on chromosome 4. After initial synthesis, the premature cytokine undergoes proteolytic processing, thus removing its 22 residue signal sequence and allowing the 133 residue IL-21 protein to properly fold and mature. Moreover, IL-21 may promote the transition between innate and adaptive immunity. Expressed in activated CD4+ T-cells but not CD8+ T-cells, B-cells or monocytes, it has been suggested that IL-21 may induce the production of IgG1 and IgG3 in B-cells, may play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL-15, and may regulate proliferation of mature B-and T-cells in response to activating stimuli. In synergy with IL-15 and IL-18, together the three cytokines have been suggested to stimulate IFN-gamma production in T-cells and NK cells. Lastly, it has been proposed that during T-cell mediated immune responses, IL-21 may inhibit dendritic cells (DC) activation and maturation.
Product Categories/Family for IL-23 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706702
NCBI GeneID	51561
NCBI Accession #	NP_057668.1
NCBI GenBank Nucleotide #	NM_016584.3
UniProt Accession #	Q9NPF7; P29460
NCBI Official Full Name	interleukin-23 subunit alpha
NCBI Official Synonym Full Names	interleukin 23 subunit alpha
NCBI Official Symbol	IL23A
NCBI Official Synonym Symbols	P19; SGRF; IL-23; IL-23A; IL23P19
NCBI Protein Information	interleukin-23 subunit alpha
UniProt Protein Name	Interleukin-23 subunit alpha
UniProt Gene Name	IL23A
UniProt Synonym Gene Names	SGRF; IL-23 subunit alpha; IL-23-A; IL-23p19
UniProt Entry Name	IL23A_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.