

Human IL-12 CLIA Kit | IL-12 clia kit

IL-12 (Human) LumiAb ELISA Kit

CATALOG #
AAA318533

REACTIVITY
Human

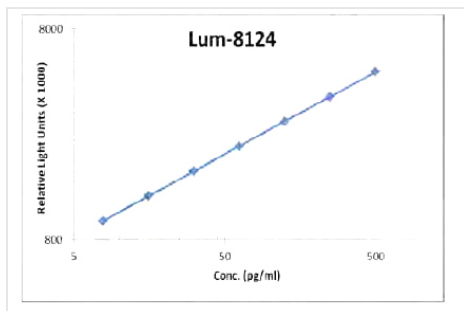
PRODUCT SYNONYMS

IL-12; IL-12 (Human) LumiAb ELISA Kit; Human IL-12; Interleukin-12 subunit alpha/beta; Cytotoxic lymphocyte maturation factor; NK cell stimulatory factor; IL-12 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-1 R1 ELISA is capable of recognizing both recombinant and naturally produced Human IL-1 R1 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	253
Assay Type	Quantitative Sandwich
Sensitivity	31 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-12 clia kit	Principle of the Assay: The LumiAb Human IL-1 R1 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-1 R1 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-1 R1 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: IL-1 R1 encodes for the cytokine receptor that belongs to the interleukin 1 receptor family. This protein functions as the receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor. It is an important mediator involved in many cytokine induced immune and inflammatory responses. This gene along with interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 2 (IL1RL2), and interleukin 1 receptor-like 1 (IL1RL1) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12. IL1R1 is also the receptor for interleukin-1 alpha (IL-1A), beta (IL-1B), and interleukin-1 receptor antagonist protein (IL-1RA). Binding to the agonist leads to the activation of NF-kappa-B. Signaling involves formation of a ternary complex containing IL1RAP, TOLLIP, MYD88, and IRAK1 or IRAK2.
Product Categories/Family for IL-12 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	24430219
NCBI GeneID	3592
NCBI Accession #	NP_000873.2
NCBI GenBank Nucleotide #	NM_000882.4
UniProt Accession #	P29459; P29460
NCBI Official Full Name	interleukin-12 subunit alpha isoform 1
NCBI Official Synonym Full Names	interleukin 12A
NCBI Official Symbol	IL12A
NCBI Official Synonym Symbols	P35; CLMF; NFSK; NKSF1; IL-12A
NCBI Protein Information	interleukin-12 subunit alpha
UniProt Protein Name	Interleukin-12 subunit alpha
UniProt Gene Name	IL12A
UniProt Synonym Gene Names	NKSF1; IL-12A; CLMF p35; NKSF1
UniProt Entry Name	IL12A_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.