

Human IL-1 R1 CLIA Kit | IL-1 R1 clia kit

IL-1 R1 (Human) LumiAb ELISA Kit

CATALOG #
AAA318594

REACTIVITY
Human

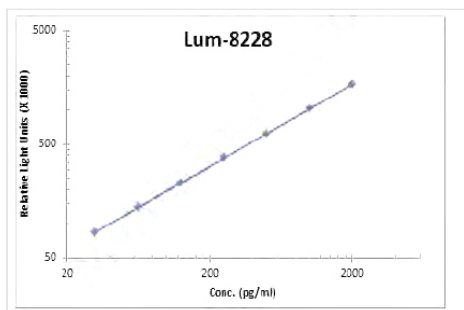
PRODUCT SYNONYMS

IL-1 R1; IL-1 R1 (Human) LumiAb ELISA Kit; Human IL-1 R1; Interleukin-1 receptor type 1; CD121 antigen-like family member A; Interleukin-1 receptor alpha; p80; IL1R; IL1RA; IL1RT1; IL-1 R1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human GRObeta ELISA is capable of recognizing both recombinant and naturally produced Human GRObeta proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 5% cross reactivity.
Sequence Length	538
Assay Type	Quantitative Sandwich
Sensitivity	4 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1 R1 clia kit	Principle of the Assay: The LumiAb Human GRO-beta Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human GRO-beta 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 GRO-beta 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 GRObeta, also known as C-X-C Motif Chemokine 2 (CXCL-2), is a 107 amino acid cytokine protein encoded by the gene CXCL2 located at locus 4q21 on chromosome 4. After proteolytic processing, the original peptide chain is cleaved into the 34 residue signal peptide and the 73 residue GRObeta chain. In vivo, GRObeta is produced by activated monocytes and neutrophils and expressed at sites of inflammation. Moreover, GRObeta exhibits chemotactic characteristics for polymorphonuclear leukocytes and hematopoietic stem cells via interacting with the cell surface chemokine receptor, CXCR2. GRObeta also acts as a hematoregulatory chemokine, which in vitro suppresses hematopoietic progenitor cell proliferation. The latter part of the original GRObeta peptide known as GRObeta-T, or GRObeta (5-73), produced from proteolytic cleavage after secretion from bone marrow stromal cells, shows highly advanced hematopoietic activity.
Product Categories/Family for IL-1 R1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	569026723
NCBI GeneID	3554
NCBI Accession #	NP_001275635.1
NCBI GenBank Nucleotide #	NM_001288706.1
UniProt Accession #	P14778
NCBI Official Full Name	interleukin-1 receptor type 1 isoform 2
NCBI Official Synonym Full Names	interleukin 1 receptor type 1
NCBI Official Symbol	IL1R1
NCBI Official Synonym Symbols	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha
NCBI Protein Information	interleukin-1 receptor type 1
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Gene Name	IL1R1
UniProt Synonym Gene Names	IL1R; IL1RA; IL1RT1; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mL-1R1; mL-1RI; sIL-1R1; sIL-1RI
UniProt Entry Name	IL1R1_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.