

## Human IL-2 CLIA Kit | IL-2 clia kit

IL-2 (Human) LumiAb ELISA Kit

CATALOG #  
**AAA318539**

REACTIVITY  
**Human**

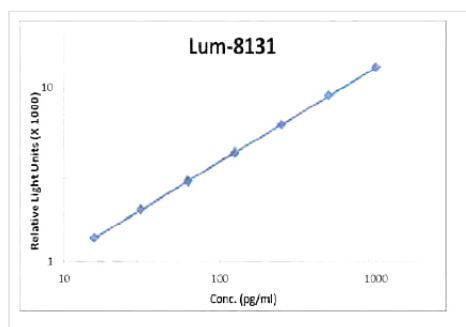
### PRODUCT SYNONYMS

IL-2; IL-2 (Human) LumiAb ELISA Kit; Human IL-2; Interleukin-2; T-cell growth factor; Aldesleukin; TCGF; IL-2 clia kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                            |
| Specificity             | The LumiAb Human IL-1alpha ELISA is capable of recognizing both recombinant and naturally produced Human IL-1alpha proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference. |
| Sequence Length         | 153                                                                                                                                                                                                                                              |
| 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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Related Product Information for IL-2 clia kit | <p>Principle of the Assay: The LumiAb Human IL-1alpha Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-1alpha 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-1alpha 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-1alpha, scientifically known as Interleukin-1alpha, is a 271 amino acid cytokine protein encoded by the gene IL1A located at locus 2q14 on chromosome 2. IL-1alpha is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, thus inducing apoptosis. In terms of proteolytic processing, the precursor molecule is cleaved into the 112 residue propeptide and the actual 159 residue IL-1alpha cytokine. Furthermore, IL-1alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. Specifically, the cytokine stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation as well as fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. This gene and 8 other Interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease.</p> |
| Product Categories/Family for IL-2 clia kit   | Luminometer Sandwich ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 28178861               |
| NCBI GeneID                      | 3558                   |
| NCBI Accession #                 | NP_000577.2            |
| NCBI GenBank Nucleotide #        | NM_000586.3            |
| UniProt Accession #              | P60568                 |
| NCBI Official Full Name          | interleukin-2          |
| NCBI Official Synonym Full Names | interleukin 2          |
| NCBI Official Symbol             | IL2                    |
| NCBI Official Synonym Symbols    | IL-2; TCGF; lymphokine |
| NCBI Protein Information         | interleukin-2          |
| UniProt Protein Name             | Interleukin-2          |
| UniProt Gene Name                | IL2                    |
| UniProt Synonym Gene Names       | IL-2; TCGF             |
| UniProt Entry Name               | IL2_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.