

Mouse IL-3 CLIA Kit | IL-3 clia kit

IL-3 (Murine) LumiAb ELISA Kit

CATALOG #
AAA318572

REACTIVITY
Mouse

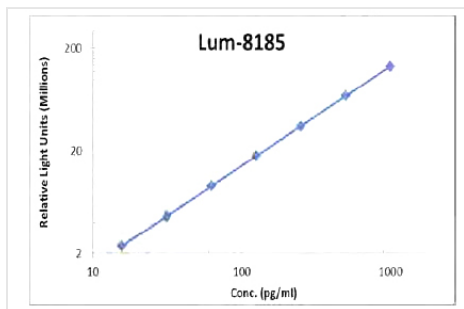
PRODUCT SYNONYMS

IL-3; IL-3 (Murine) LumiAb ELISA Kit; Murine IL-3; Interleukin-3; Hematopoietic growth factor; Mast cell growth factor; Multipotential colony-stimulating factor; P-cell-stimulating factor; MCGF; Csfmu; IL-3 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The LumiAb Murine IL-21 ELISA is capable of recognizing both recombinant and naturally produced Murine IL-21 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	166
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-3 clia kit	Principle of the Assay: The LumiAb Murine IL-21 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine 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 Murine 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: Murine IL-21 or Interleukin-21 is a 146 amino acid cytokine protein expressed from chromosome 3. After initial synthesis and translocation, the 17 residue signal sequence is cleaved, allowing the 129 residue IL-21 peptide to properly fold and mature. IL-21, a cytokine with immunoregulatory activity, may serve to promote the transition between innate and adaptive immunity, induce the production of IgG1 and IgG3 in B-cells, and possibly play a role in the proliferation and maturation of natural killer (NK) cells in synergy with IL-15. Also, IL-21 may regulate proliferation of mature B-and T-cells in response to activating stimuli. IL-21, interacting with its family members, IL-15 and IL-18, can stimulate IFN-gamma production in T-cells and NK cells. During T-cell mediated immune responses, IL-21 may inhibit dendritic cells (DC) activation and maturation.
Product Categories/Family for IL-3 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982791
NCBI GeneID	16187
NCBI Accession #	NP_034686.2
NCBI GenBank Nucleotide #	NM_010556.4
UniProt Accession #	P01586
NCBI Official Full Name	interleukin-3
NCBI Official Synonym Full Names	interleukin 3
NCBI Official Symbol	IL3
NCBI Official Synonym Symbols	BPA; PSF; HCGF; IL-3; MCGF; Csfmu
NCBI Protein Information	interleukin-3
UniProt Protein Name	Interleukin-3
UniProt Gene Name	IL3
UniProt Synonym Gene Names	Csfmu; IL-3; IL-3; MCGF
UniProt Entry Name	IL3_MOUSE

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.