

Human IL-5 CLIA Kit | IL-5 clia kit

IL-5 (Human) LumiAb ELISA Kit

CATALOG #
AAA318545

REACTIVITY
Human

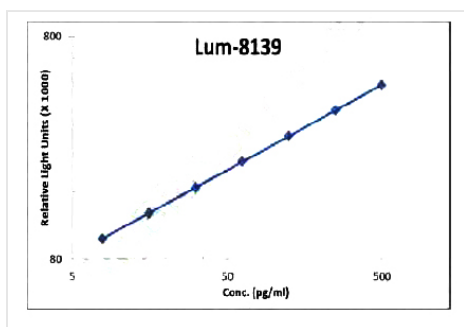
PRODUCT SYNONYMS

IL-5; IL-5 (Human) LumiAb ELISA Kit; Human IL-5; Interleukin-5; B-cell differentiation factor I; Eosinophil differentiation factor; T-cell replacing factor; IL-5 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human IL-33 ELISA is capable of recognizing both recombinant and naturally produced Human IL-33 proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 2% cross reactivity.
Sequence Length	134
Assay Type	Quantitative Sandwich
Sensitivity	15 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-5 clia kit	Principle of the Assay: The LumiAb Human IL-33 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human IL-33 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-33 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-33 or Interleukin-33, also known as Nuclear Factor from High Endothelial Venules, is a 270 amino acid cytokine encoded by the IL33 gene at locus 9p24.1 on chromosome 9. After initial synthesis, the 111 residue propeptide is cleaved from the actual 159 residue IL-33 chain, thus allowing for the cytokine to properly fold. It is proteolytically converted to a mature form by CASP1 in vitro and calpains in vivo. IL-33 is a member of the IL-1 family that potently drives production of T helper-2 (Th2)-associated cytokines. Moreover, IL-33 is a ligand for IL-33R, an IL-1 family receptor that is selectively expressed on Th2 cells and mast cells. The cytokine binds to and signals through IL-1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4 and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14 and MAPK8. Typically, IL-33 is highly expressed in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes, but almost undetectable in placenta.
Product Categories/Family for IL-5 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504671
NCBI GeneID	3567
NCBI Accession #	NP_000870.1
NCBI GenBank Nucleotide #	NM_000879.3
UniProt Accession #	P05113
NCBI Official Full Name	interleukin-5
NCBI Official Synonym Full Names	interleukin 5
NCBI Official Symbol	IL5
NCBI Official Synonym Symbols	EDF; TRF; IL-5
NCBI Protein Information	interleukin-5
UniProt Protein Name	Interleukin-5
UniProt Gene Name	IL5
UniProt Synonym Gene Names	IL-5; TRF
UniProt Entry Name	IL5_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.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/il-5/318545>