

Mouse Eotaxin CLIA Kit | CCL11 clia kit

Eotaxin (Murine) LumiAb ELISA Kit

CATALOG #
AAA318567

REACTIVITY
Mouse

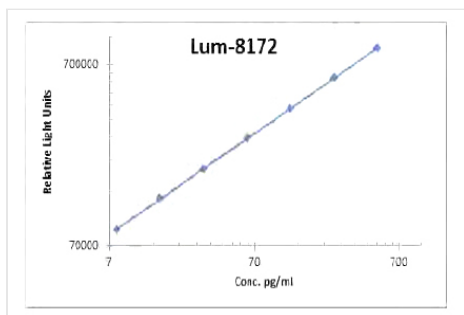
PRODUCT SYNONYMS

Eotaxin; Eotaxin (Murine) LumiAb ELISA Kit; Murine Eotaxin; C-C motif chemLumine 11; Eosinophil chemotactic protein; Small-inducible cytLumine A11; Scya11; CCL11 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The LumiAb Murine EGF ELISA is capable of recognizing both recombinant and naturally produced Murine EGF proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	97
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CCL11 clia kit	Principle of the Assay: The LumiAb Murine EGF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine EGF 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 EGF 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 EGF, also known as Epidermal Growth Factor, is a 1217 amino acid cytokine protein expressed from the Egf gene on chromosome 3. EGF essentially stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Moreover, it is a magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Mechanistically, EGF interacts with EGFR and promotes dimerization. When it interacts with RHBDF1 and RHBDF2, EGF may be retained in the endoplasmic reticulum and regulated for degradation via the endoplasmic reticulum-associated degradation (ERAD). In its peptide sequence, EGF contains 9 EGF-like domains as well as 8 LDL-receptor class B repeats.
Product Categories/Family for CCL11 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755418
NCBI GeneID	20292
NCBI Accession #	NP_035460.1
NCBI GenBank Nucleotide #	NM_011330.3
UniProt Accession #	P48298
NCBI Official Full Name	eotaxin
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 11
NCBI Official Symbol	Ccl11
NCBI Official Synonym Symbols	Scya11; eotaxin
NCBI Protein Information	eotaxin
UniProt Protein Name	Eotaxin
UniProt Gene Name	Ccl11
UniProt Synonym Gene Names	Scya11
UniProt Entry Name	CCL11_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.