

Mouse G-CSF CLIA Kit | G-CSF clia kit

G-CSF (Murine) LumiAb ELISA Kit

CATALOG #
AAA318568

REACTIVITY
Mouse

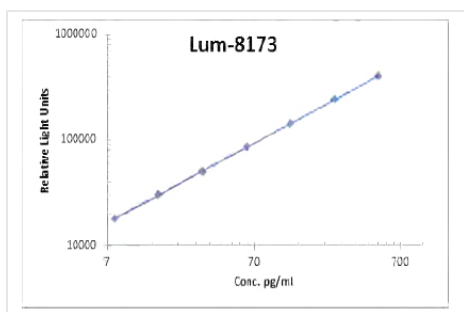
PRODUCT SYNONYMS

G-CSF; G-CSF (Murine) LumiAb ELISA Kit; Murine G-CSF; Granulocyte colony-stimulating factor; Csfg; G-CSF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The LumiAb Murine Eotaxin ELISA is capable of recognizing both recombinant and naturally produced Murine Eotaxin proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	208
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 G-CSF clia kit	Principle of the Assay: The LumiAb Murine Eotaxin Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine Eotaxin 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 Eotaxin 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 Eotaxin, also known as C-C Chemokine 11, is a 97 amino acid cytokine protein encoded by the Ccl11 gene located on chromosome 11. After initial synthesis and translocation, the 23 residue signal sequence is cleaved from the N-terminal region, allowing the 74 residue Eotaxin peptide to fold properly into its mature form. In response to the presence of allergens, Eotaxin, an intercrine beta (chemokine C-C) family member, directly promotes the accumulation of eosinophils (a prominent feature of allergic inflammatory reactions), but not lymphocytes, macrophages or neutrophils. Furthermore, it is expressed constitutively in the thymus, while expression in the lungs (type I alveolar epithelial cells), intestines, heart, spleen and kidneys is inducible by IFN-gamma and lipopolysaccharides (LPS).
Product Categories/Family for G-CSF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753536
NCBI GeneID	12985
NCBI Accession #	NP_034101.1
NCBI GenBank Nucleotide #	NM_009971.1
UniProt Accession #	P09920
NCBI Official Full Name	granulocyte colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 3 (granulocyte)
NCBI Official Symbol	Csf3
NCBI Official Synonym Symbols	Csfg; G-CSF; MGI-IG
NCBI Protein Information	granulocyte colony-stimulating factor
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	Csf3
UniProt Synonym Gene Names	Csfg; G-CSF
UniProt Entry Name	CSF3_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.