

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

G-CSF (Human) LumiAb ELISA Kit

CATALOG #
AAA318529

REACTIVITY
Human

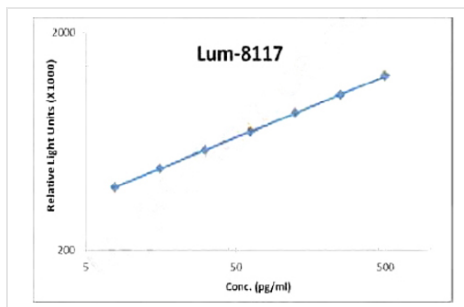
PRODUCT SYNONYMS

G-CSF; G-CSF (Human) LumiAb ELISA Kit; Human G-CSF; Granulocyte colony-stimulating factor; Pluripoietin; Filgrastim; Lenograstim; C17orf33; CSF3; G-CSF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human Gas6 ELISA is capable of recognizing both recombinant and naturally produced Human Gas6 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	168
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 G-CSF clia kit	Principle of the Assay: The LumiAb Human Gas6 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Gas6 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 Gas6 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: Gas6 is a ligand for tyrosine-protein kinase receptors AXL, TYRO3 and MER, whose signaling is implicated in cell growth and survival, cell adhesion and cell migration. Gas6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses. Isoform 1 and isoform 2 are widely expressed. Isoform 1 is the predominant form in spleen and is proteolytically processed after secretion to yield an N-terminal 36 kDa protein and a C-terminal 50 kDa protein including the laminin G-like domains which activates AXL. Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.
Product Categories/Family for G-CSF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	296011057
NCBI GeneID	1440
NCBI Accession #	NP_001171618.1
NCBI GenBank Nucleotide #	NM_001178147.1
UniProt Accession #	P09919
NCBI Official Full Name	granulocyte colony-stimulating factor isoform d
NCBI Official Synonym Full Names	colony stimulating factor 3
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33
NCBI Protein Information	granulocyte colony-stimulating factor
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF; G-CSF
UniProt Entry Name	CSF3_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.