

Human EGF CLIA Kit | EGF clia kit

EGF (Human) LumiAb ELISA Kit

CATALOG #
AAA318526

REACTIVITY
Human

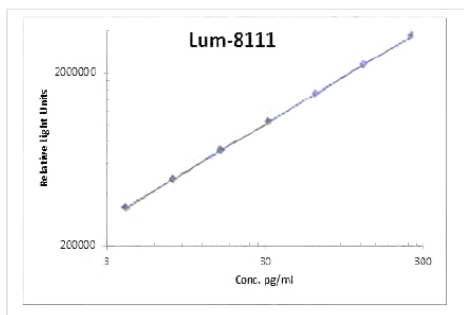
PRODUCT SYNONYMS

EGF; EGF (Human) LumiAb ELISA Kit; Human EGF; Epidermal growth factor; Urogastrone; EGF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human CTGF ELISA is capable of recognizing both recombinant and naturally produced Human CTGF proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	1207
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 EGF clia kit	Principle of the Assay: The LumiAb Human CTGF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human CTGF 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 CTGF 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 CTGF, also known as Connective Tissue Growth Factor, is a 349 amino acid growth factor encoded by the CTGF gene located at locus 6q23.1 on chromosome 6. Following translation, CTGF undergoes proteolytic processing where the 26 residue signal sequence is cleaved and CTGF is allowed to fold into its mature form. CTGF is characterized as a major connective tissue mitogen secreted by vascular endothelial cells. These growth factors typically are known to promote proliferation and differentiation of chondrocytes, mediate heparin- and divalent cation-dependent cell adhesion in many cell types including fibroblasts, myofibroblasts, endothelial and epithelial cells. Moreover, they tend to enhance fibroblast growth factor-induced DNA synthesis. Belonging to the CCN family, the CTGF protein contains a C-terminal cysteine knot-like domain (CTCK), an IGFBP N-terminal domain, a TSP type-1 domain, and a VWFC domain. Furthermore, this particular growth factor is mainly expressed in bone marrow and thymic cells.
Product Categories/Family for EGF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	251757262
NCBI GeneID	1950
UniProt Accession #	P01133
NCBI Official Full Name	Pro-epidermal growth factor
NCBI Official Synonym Full Names	epidermal growth factor
NCBI Official Symbol	EGF
NCBI Official Synonym Symbols	URG; HOMG4
NCBI Protein Information	pro-epidermal growth factor
UniProt Protein Name	Pro-epidermal growth factor
UniProt Gene Name	EGF
UniProt Synonym Gene Names	EGF
UniProt Entry Name	EGF_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.