

Human PLGF CLIA Kit | PLGF clia kit

PLGF (Human) LumiAb ELISA Kit

CATALOG #
AAA318557

REACTIVITY
Human

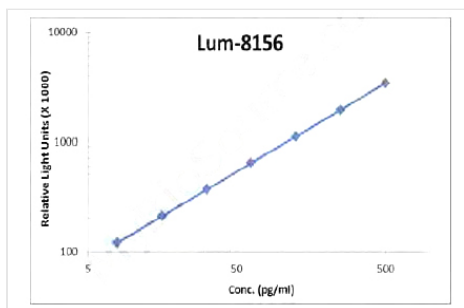
PRODUCT SYNONYMS

PLGF; PLGF (Human) LumiAb ELISA Kit; Human PLGF; Placenta growth factor; PGFL; PLGF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human NOV ELISA is capable of recognizing both recombinant and naturally produced Human NOV proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	149
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 PLGF clia kit	Principle of the Assay: The LumiAb Human NOV Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human NOV 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 NOV 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 NOV or Nephroblastoma-Overexpressed Gene, is a 357 amino acid, cysteine-rich family member of the CCN family of regulatory proteins encoded by the NOV gene located at locus 8q24.1 on chromosome 8. After initial synthesis of the protein, it is proteolytically cleaved to remove the 31 residue signal sequence, allowing the 326 residue peptide to fold properly into a mature NOV cytokine. CNN family proteins associate with the extracellular matrix and play an important role in cardiovascular and skeletal development, fibrosis and cancer development. Moreover, belonging to the CCN family, NOV contains 1 CTCK (C-terminal cysteine knot-like) domain, 1 IGFBP N-terminal domain, 1 TSP type-1 domain and a VWFC domain. NOV is typically expressed in bone marrow, thymic cells and nephroblastoma with increased expression in Wilms tumor of the stromal type and down-regulated expression by WT1.
Product Categories/Family for PLGF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	333033785
NCBI GeneID	5228
NCBI Accession #	NP_001193941.1
NCBI GenBank Nucleotide #	NM_001207012.1
UniProt Accession #	P49763
NCBI Official Full Name	placenta growth factor isoform 2
NCBI Official Synonym Full Names	placental growth factor
NCBI Official Symbol	PGF
NCBI Official Synonym Symbols	PGFL; PIGF; PLGF; PIGF-2; D12S1900; SHGC-10760
NCBI Protein Information	placenta growth factor
UniProt Protein Name	Placenta growth factor
UniProt Gene Name	PGF
UniProt Synonym Gene Names	PGFL; PLGF; PIGF
UniProt Entry Name	PLGF_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.