

Human PAI-1 CLIA Kit | PAI-1 clia kit

PAI-1 (Human) LumiAb ELISA Kit

CATALOG #
AAA318556

REACTIVITY
Human

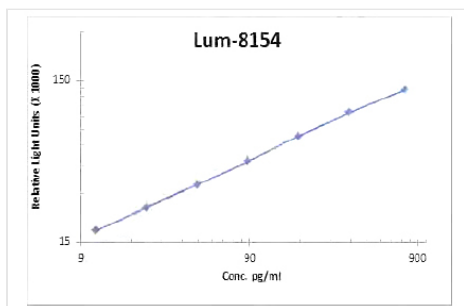
PRODUCT SYNONYMS

PAI-1; PAI-1 (Human) LumiAb ELISA Kit; Human PAI-1; Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; Serpin E1; PLANH1; PAI-1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human PLGF-1 ELISA is capable of recognizing both recombinant and naturally produced Human PLGF-1 proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	402
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 PAI-1 clia kit	Principle of the Assay: The LumiAb Human P1GF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human P1GF 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 P1GF 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 P1GF-1, also known as Placenta Growth Factor, is a 221 amino acid growth factor protein encoded by the PGF gene located at locus 14q24.3 on chromosome 14. After initial synthesis, the 18 residue signal sequence is removed, allowing for the proper folding and maturation of the 203 residue PLGF-1 protein. PLGF-1 is essentially a growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1/VEGFR-1 while isoform PIGF-2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. The subunit structure is known to be an antiparallel homodimer connected via disulfide linkages, but also can be found as a heterodimer with VEGFA/VEGF. Meanwhile, the PLGF-3 isoform can be found as both as a homodimer and as a monomer. While the three isoforms are present in most placental tissues, PLGF-2 is specific to early (8 week) placenta and only PLGF-1 is found in the colon and mammary carcinomas.
Product Categories/Family for PAI-1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835159
NCBI GeneID	5054
NCBI Accession #	NP_000593.1
NCBI GenBank Nucleotide #	NM_000602.4
UniProt Accession #	P05121
NCBI Official Full Name	plasminogen activator inhibitor 1
NCBI Official Synonym Full Names	serpin family E member 1
NCBI Official Symbol	SERPINE1
NCBI Official Synonym Symbols	PAI; PAI1; PAI-1; PLANH1
NCBI Protein Information	plasminogen activator inhibitor 1
UniProt Protein Name	Plasminogen activator inhibitor 1
UniProt Gene Name	SERPINE1
UniProt Synonym Gene Names	PAI1; PLANH1; PAI; PAI-1
UniProt Entry Name	PAI1_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.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/pai-1/318556>