

Human Pentraxin-3 CLIA Kit | PTX3 clia kit

Pentraxin-3 (Human) LumiAb ELISA Kit

CATALOG #
AAA318608

REACTIVITY
Human

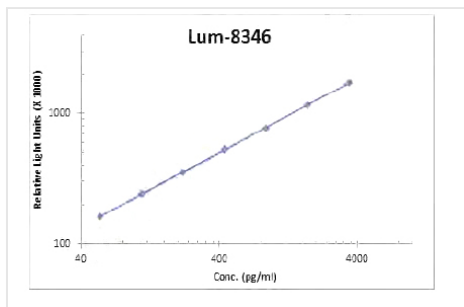
PRODUCT SYNONYMS

Pentraxin-3; Pentraxin-3 (Human) LumiAb ELISA Kit; Human Pentraxin-3; Pentraxin-related protein PTX3; Pentaxin-related protein PTX3; Tumor necrosis factor alpha-induced protein 5; TNF alpha-induced protein 5; Tumor necrosis factor-inducible gene 14 protein; TSG-14; TNFAIP5; TSG14; PTX3 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human PAI-1 ELISA is capable of recognizing both recombinant and naturally produced Human PAI-1 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	381
Assay Type	Quantitative Sandwich
Sensitivity	11 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTX3 clia kit	Principle of the Assay: The LumiAb Human PAI-1 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human PAI-1 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 PAI-1 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 PAI-1 or Plasminogen Activator Inhibitor 1, also known as Serpin Peptidase Inhibitor Clade E, is a 402 amino acid cytokine protein that acts as "bait" for tissue plasminogen activator, urokinase and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis. PAI-1 is expressed from the SERPINE1 gene located at locus 7q21.3-7q22 on chromosome 7. After initial synthesis, the 23 residue signal sequence is removed, allowing for the proper folding and maturation of the PAI-1 protein. Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1D), a hematologic disorder characterized by increased bleeding after trauma, injury, or surgery; affected females have menorrhagia. The bleeding defect is due to increased fibrinolysis of fibrin blood clots due to deficiency of plasminogen activator inhibitor-1, which inhibits tissue and urinary activators of plasminogen. Moreover, high concentrations of PAI-1 seem to contribute to the development of venous but not arterial occlusions. PAI-1 is typically found in plasma and platelets as well as in endothelial, hepatoma and fibrosarcoma cells. A usual post-translational modification that occurs is the inactivation of PAI-1 by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving Arg369-Met370 peptide bond.
Product Categories/Family for PTX3 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	167900484
NCBI GeneID	5806
NCBI Accession #	NP_002843.2
NCBI GenBank Nucleotide #	NM_002852.4
UniProt Accession #	P26022
NCBI Official Full Name	pentraxin-related protein PTX3
NCBI Official Synonym Full Names	pentraxin 3
NCBI Official Symbol	PTX3
NCBI Official Synonym Symbols	TSG-14; TNFAIP5
NCBI Protein Information	pentraxin-related protein PTX3
UniProt Protein Name	Pentraxin-related protein PTX3
UniProt Gene Name	PTX3
UniProt Synonym Gene Names	TNFAIP5; TSG14; TNF alpha-induced protein 5; TSG-14
UniProt Entry Name	PTX3_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.

