

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

TIMP-1 (Human) LumiAb ELISA Kit

CATALOG #
AAA318561

REACTIVITY
Human

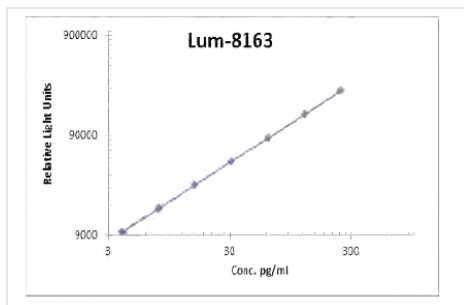
PRODUCT SYNONYMS

TIMP-1; TIMP-1 (Human) LumiAb ELISA Kit; Human TIMP-1; Metalloproteinase inhibitor 1; Erythroid-potentiating activity; Fibroblast collagenase inhibitor; Tissue inhibitor of metalloproteinases 1; EPA; CLGI; TIMP; TIMP-1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human Thrombospondin-1 ELISA is capable of recognizing both recombinant and naturally produced Human Thrombospondin-1 proteins. The antigens listed below were tested at 1000 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	207
Assay Type	Quantitative Sandwich
Sensitivity	400 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TIMP-1 clia kit	Principle of the Assay: The LumiAb Human Thrombospondin-1 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Thrombospondin-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 Thrombospondin-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: Thrombospondin-1 is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. The protein binds heparin and may play a role in dentinogenesis and/or the maintenance of dentin and dental pulp. Thrombospondin-1 is a ligand for CD36-mediating anti-angiogenic properties. It is a homotrimer and disulfide-linked. Thrombospondin-1 interacts (via the TSP type I repeats) with HRG; the interaction blocks the anti-angiogenic effect of THBS1 with CD36. Thrombospondin-1 can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1, alpha-V/beta-3 and alpha-IIb/beta-3.
Product Categories/Family for TIMP-1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507509
NCBI GeneID	7076
NCBI Accession #	NP_003245.1
NCBI GenBank Nucleotide #	NM_003254.3
UniProt Accession #	P01033
NCBI Official Full Name	metalloproteinase inhibitor 1
NCBI Official Synonym Full Names	TIMP metalloproteinase inhibitor 1
NCBI Official Symbol	TIMP1
NCBI Official Synonym Symbols	EPA; EPO; HCI; CLGI; TIMP; TIMP-1
NCBI Protein Information	metalloproteinase inhibitor 1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	CLGI; TIMP; EPA; Collagenase inhibitor; TIMP-1
UniProt Entry Name	TIMP1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/timp-1/318561>