

Human Thrombospondin-1 CLIA Kit | THBS1 clia kit

Thrombospondin-1 (Human) LumiAb ELISA Kit

CATALOG #
AAA318609

REACTIVITY
Human

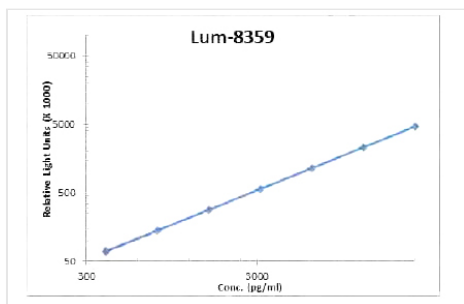
PRODUCT SYNONYMS

Thrombospondin-1; Thrombospondin-1 (Human) LumiAb ELISA Kit; Human Thrombospondin-1; TSP; TSP1; THBS1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human TGFbeta-R3 ELISA is capable of recognizing both recombinant and naturally produced Human TGFbeta-R3 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	1170
Assay Type	Quantitative Sandwich
Sensitivity	40 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for THBS1 clia kit	Principle of the Assay: The LumiAb Human TGFbeta-R3 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human TGFbeta-R3 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 TGFbeta-R3 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: TGFbeta-R3 binds to TGF-beta and could be involved in capturing and retaining TGF-beta for presentation to the signaling receptors. This receptor interacts with TCTEX1D4 and exists both as a membrane-bound form and as soluble form in serum and in the extracellular matrix. Studies have shown that TGFbeta-R3 is extensively modified by glycosaminoglycan groups (GAG). This locus, 1p33-p32, encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. In mechanism, ectodomain shedding produces soluble TGFBR3, which may inhibit TGFB signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.
Product Categories/Family for THBS1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	117949802
NCBI GeneID	7057
UniProt Accession #	P07996
NCBI Official Full Name	Thrombospondin-1
NCBI Official Synonym Full Names	thrombospondin 1
NCBI Official Symbol	THBS1
NCBI Official Synonym Symbols	TSP; THBS; TSP1; TSP-1; THBS-1
NCBI Protein Information	thrombospondin-1
UniProt Protein Name	Thrombospondin-1
UniProt Gene Name	THBS1
UniProt Synonym Gene Names	TSP; TSP1
UniProt Entry Name	TSP1_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.