

Human TIMP-2 ELISA Kit | TIMP-2 elisa kit

TIMP-2 Human ELISA Kit

CATALOG # AAA59009	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

TIMP-2; TIMP-2 Human ELISA Kit; Human TIMP-2; TIMP-2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 2 pg/ml
Applicable Applications for TIMP-2 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

ADDITIONAL INFORMATION

Related Product Information for TIMP-2 elisa kit	Background: TIMP metalloproteinase inhibitor 2, also known as TIMP-2, is a 21-kD protein, which is secreted by human melanoma cells and binds to type IV collagenase proenzyme secreted by the same cells. The TIMP2 gene is a member of the TIMP gene family, It is encoded by 5 exons spanning 83 kb of genomic DNA. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. It has an amino acid sequence with many similarities to human tissue inhibitor of metalloproteinase (TIMP1). TIMP2 is a tissue inhibitor of metalloproteinases, TIMP2 induced a decrease in total protein tyrosine phosphatase (PTP) activity associated with beta-1 integrin subunits as well as dissociation of the phosphatase SHP1 from beta-1. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TIMP-2 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TIMP-2 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TIMP-2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TIMP-2 can be calculated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	619233
NCBI GeneID	29543
UniProt Accession #	P30121; Q546J4
Molecular Weight	24,356 Da

NCBI Official Full Name	tissue inhibitor of metalloproteinase type 2
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 2
NCBI Official Symbol	Timp2
NCBI Protein Information	metalloproteinase inhibitor 2; TIMP-2; tissue inhibitor of metalloproteinase 2; tissue inhibitor of metalloproteinases 2
UniProt Protein Name	Metalloproteinase inhibitor 2
UniProt Gene Name	Timp2
UniProt Synonym Gene Names	Timp-2; TIMP-2
UniProt Entry Name	TIMP2_RAT

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://www.aaabiotech.com/human-elisa-kits/timp-2/59009>