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TIMP2 ELISA Kit

1	Image



Publications



Overview

Quantity:	96 tests
Target:	TIMP2
Binding Specificity:	AA 27-220
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TIMP-2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO
	Immunogen sequence: C27-P220
Specificity:	Expression system for standard: CHO
	Immunogen sequence: C27-P220
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<2pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	TIMP2
Alternative Name:	TIMP2 (TIMP2 Products)
Background:	Protein Function: Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-13, MMP-14, MMP-15, MMP-16 and MMP-19. Background: TIMP2 gen is encoded by 5 exons spanning 83 kb of genomic DNA. TIMP2 is 83 kilobase pairs(kb) long with exon-intron splicing sites located in preserved positions among the three members of the TIMP family. The gene for tissue inhibitor of metalloproteinases-2 is localized on human chromosome arm 17q25. TIMP-2 abrogates angiogenic factor-induced endothelial cell proliferation in vitro and angiogenesis in vivo independent of MMP inhibition. The standard product used in this kit is recombinant human TIMP-2 with the molecular mass of 22Kda and 194 amino acid. Synonyms: Metalloproteinase inhibitor 2,CSC-21K,Tissue inhibitor of metalloproteinases 2,TIMP-2,TIMP2, Full Gene Name: Metalloproteinase inhibitor 2 Cellular Localisation: Secreted.
Gene ID:	7077
UniProt:	P16035
Pathways:	cAMP Metabolic Process
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the protease inhibitor I35 (TIMP) family.

Application Details

Product cited in:	Gishto, Farrell, Kothapalli: "Tuning composition and architecture of biomimetic scaffolds for
Publications	
Expiry Date:	12 months
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Storage:	-20 °C,4 °C
Handling Advice:	Avoid multiple freeze-thaw cycles.
Handling	
Restrictions:	For Research Use only
	• Sample 3: n=24, Mean(ng/ml): 6.61, Standard deviation: 0.496, CV(%): 7.5
	Sample 2: n=24, Mean(ng/ml): 3.77, Standard deviation: 0.241, CV(%): 6.4
	 Sample 3. n=16, Mean(ng/ml): 0.37, Standard deviation: 0.263, CV(%): 4.3, Sample 1: n=24, Mean(ng/ml): 1.43, Standard deviation: 0.103, CV(%): 7.2
	 Sample 2: n=16, Mean(ng/ml): 3.64, Standard deviation: 0.135, CV(%): 3.7 Sample 3: n=16, Mean(ng/ml): 6.57, Standard deviation: 0.283, CV(%): 4.3,
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.37, Standard deviation: 0.067, CV(%): 4.9 Sample 2: n=16, Mean(ng/ml): 3.64, Standard deviation: 0.135, CV(%): 3.7
	that each human TIMP-2 standard solution and each sample be measured in duplicate.
	saliva to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
	properly diluted sample of human cell culture supernates, serum, plasma(heparin , EDTA) or
	·
Assay i Tocedure.	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	312pg/mL, 156pg/mL human TIMP-2 standard solutions into the precoated 96-well plate. Add
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	yellow is proportional to the human TIMP-2 amount of sample captured in plate.
	blue color product that changed into yellow after adding acidic stop solution. The density of
	TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
	added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
	and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
	biotinylated detection polyclonal antibody from goat specific for TIMP-2 is added subsequently
	onto 96-well plates. Standards(CHO, C27-P220) and test samples are added to the wells, a
	assay technology. A monoclonal antibody from mouse specific for TIMP-2 has been precoated
Protocol:	•
Protocol:	human TIMP-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Gishto, Farrell, Kothapalli: "Tuning composition and architecture of biomimetic scaffolds for enhanced matrix synthesis by murine cardiomyocytes." in: **Journal of biomedical materials research. Part A**, Vol. 103, Issue 2, pp. 693-708, (2015) (PubMed).

Cavdar, Ozbal, Celik, Ergur, Guneli, Ural, Camsari, Guner: "The effects of alpha-lipoic acid on MMP-2 and MMP-9 activities in a rat renal ischemia and re-perfusion model." in: **Biotechnic & histochemistry: official publication of the Biological Stain Commission**, Vol. 89, Issue 4, pp. 304-14, (2014) (PubMed).

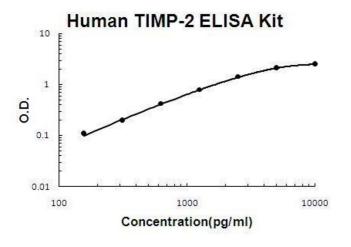
Hopps, Lo Presti, Montana, Canino, Averna, Caimi: "Study of the correlations among some parameters of the oxidative status, gelatinases, and their inhibitors in a group of subjects with metabolic syndrome." in: **Mediators of inflammation**, Vol. 2014, pp. 510619, (2014) (PubMed).

Xu, Ling, Zhu, Fan, Zhang: "The effect of 2,3,4',5-tetrahydroxystilbene-2-0-?-D glucoside on neointima formation in a rat artery balloon injury model and its possible mechanisms." in: **European journal of pharmacology**, Vol. 698, Issue 1-3, pp. 370-8, (2013) (PubMed).

Hopps, Lo Presti, Montana, Noto, Averna, Caimi: "Gelatinases and their tissue inhibitors in a group of subjects with metabolic syndrome." in: **Journal of investigative medicine: the official publication of the American Federation for Clinical Research**, Vol. 61, Issue 6, pp. 978-83, (2013) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Human TIMP-2 PicoKine ELISA Kit standard curve