Mouse Tissue inhibitors of metalloproteinase 1 (TIMP1) ELISA Kit

Catalog No: #EK6555

Package Size: #EK6555-1 48T #EK6555-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Tissue inhibitors of metalloproteinase 1 (TIMP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP1-230G1.3; CLGI; EPA; EPO; FLJ90373; HCI; TIMP; erythroid potentiating activity;fibroblast collagenase inhibitor;Metalloproteinase inhibitor 1
Accession No.	P12032
Uniprot	P12032
GeneID	21857;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TIMP1 in samples. An antibody specific for TIMP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTIMP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TIMP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TIMP metallopeptidase inhibitor 1, a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function.

Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction.

Note: This product is for in vitro research use only