Canine Metalloproteinase inhibitor 2 (TIMP2) ELISA Kit

Catalog No: #EK6549

Package Size: #EK6549-1 48T #EK6549-2 96T

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

Description

Product Name	Canine Metalloproteinase inhibitor 2 (TIMP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Canine (Canis familiaris; Dog)
Other Names	CSC-21K; tissue inhibitor of metalloproteinase 2|tissue inhibitor of metalloproteinases 2
Accession No.	Q9TTY1
Uniprot	Q9TTY1
GeneID	403633;
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 TIMP2 in samples. An antibody specific for TIMP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTIMP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMP2 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 TIMP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TIMP2, is a member of the TIMP family. The proteins are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. In melanocytic cells TIMP2 gene expression may be regulated by MITF.

Note: This product is for in vitro research use only