

Rat Tissue inhibitors of metalloproteinase 4 (TIMP4) ELISA Kit



Catalog No: #EK12136

Orders: order@signalwayantibody.com

Package Size: #EK12136-1 48T #EK12136-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Tissue inhibitors of metalloproteinase 4 (TIMP4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	tissue inhibitor of metalloproteinase 4
Accession No.	O97591
Uniprot	O97591
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

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:Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate TIMP4 in samples. An antibody specific for TIMP4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TIMP4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMP4 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 TIMP4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Leco et al. (1997) cloned cDNAs encoding mouse Timp4. The predicted Timp4 protein contains the hallmarks of TIMP proteins, including 12 conserved cysteine residues and 2 short conserved sequence motifs. Northern blot analysis of adult mouse tissues detected Timp4 expression in brain, heart, ovary, and skeletal muscle. Olson et al., 1998 determined that the TIMP4 gene contains 5 exons that span 6 kb of genomic DNA. They demonstrated a high degree of conservation of gene structure in the TIMP family. By FISH, Olson et al., 1998 mapped the TIMP4 gene to chromosome 3p25. By interspecific backcross analysis, they mapped the mouse Timp4 gene to chromosome 6 in a region of syntenic homology with human chromosome 3.

Note: This product is for in vitro research use only