Rat Tenomodulin (TNMD) ELISA Kit

Catalog No: #EK6171

Package Size: #EK6171-1 48T #EK6171-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Rat Tenomodulin (TNMD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	BRICD4; CHM1L; TEM; BRICHOS domain containing 4|CHM1-like|chondromodulin I-like|chondromodulin-IB|myodulin|tendin
Accession No.	Q9ESC2
Uniprot	Q9ESC2
GeneID	64104;
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 TNMD in samples. An antibody specific for TNMD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTNMD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNMD 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 TNMD bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By searching an EST database for sequences similar to mouse Tem, followed by RACE of a human fetus cDNA library, Shukunami et al. (2001) cloned TEM. The deduced 317-amino acid protein contains an N-terminal transmembrane domain and a putative antiangiogenic domain with 8 cysteines.

TEM shares 96% amino acid identity with mouse Tem, and it shares 65% identity in a 65-amino acid C-terminal stretch with chondromodulin I (CHM1). Northern blot analysis of several mouse tissues detected a 1.4-kb transcript expressed specifically in skeletal muscle. In situ hybridization revealed mouse Tem expression in dense connective tissue, such as epimysium and tendon.

Note: This product is for in vitro research use only