Bovine Tropomodulin-4 (TMOD4) ELISA Kit

Catalog No: #EK6323

Package Size: #EK6323-1 48T #EK6323-2 96T

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

Description

Product Name	Bovine Tropomodulin-4 (TMOD4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	RP11-68I18.7; DKFZp779I0852; SK-TMOD; actin-capping protein
Accession No.	Q0VC48
Uniprot	Q0VC48
GeneID	505645;
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 TMOD4 in samples. An antibody specific for TMOD4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMOD4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMOD4 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 TMOD4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TMOD4 encodes a muscle-specific member of the tropomodulin family of actin-regulatory proteins. The encoded protein caps the pointed end of actin filaments preventing both elongation and depolymerization. The capping activity of this protein is dependent on its association with tropomyosin. Alternatively spliced transcript variants encoding different isoforms have been described.

Human TMOD4 encodes a deduced 345-amino acid protein. Northern blot analysis on human tissues detected a prominent 1.3- to 1.5-kb transcript in skeletal muscle. Three faint transcripts were detected: a 6.8-kb transcript in heart and skeletal muscle, and 2.4 and 3.0 transcripts in skeletal muscle.

Note: This product is for in vitro research use only