Human Tropomyosin alpha-3 chain (TPM3) ELISA Kit

Catalog No: #EK6033

Package Size: #EK6033-1 48T #EK6033-2 96T

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

Description

Product Name	Human Tropomyosin alpha-3 chain (TPM3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-205M9.1; FLJ41118; MGC14582; MGC3261; MGC72094; NEM1; OK/SW-cl.5; TM-5; TM3; TM30; TM30nm; TPMsk3; TRK; hscp30; cytoskeletal tropomyosin TM30|heat-stable cytoskeletal protein 30 kDa|tropomyosin
Accession No.	P06753
Uniprot	P06753
GeneID	7170;
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:0.312-20 ng/mL

Sensitivity:0.113 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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TPM3 in samples. An antibody specific for TPM3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPM3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPM3 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 TPM3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Tropomyosin alpha-3 chain is a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Multiple transcript variants encoding different isoforms have been found for this gene.

Note: This product is for in vitro research use only