Mouse Transmembrane protein 53 (TMEM53) ELISA Kit

Catalog No: #EK6400

Package Size: #EK6400-1 48T #EK6400-2 96T

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

Description

Product Name	Mouse Transmembrane protein 53 (TMEM53) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP4-678E16.2; FLJ22353; NET4; novel DUF829 domain-containing protein
Accession No.	Q9D0Z3
Uniprot	Q9D0Z3
GeneID	68777;
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 TMEM53 in samples. An antibody specific for TMEM53 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM53 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM53 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 TMEM53 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TMEM53 has no paralogs but is predicted to have many orthologs across eukaryotes. The secondary structure of TMEM53 is predicted to consist of alternating pairs of alpha helices and beta sheets.The function of TMEM53 is not fully understood. It contains a domain of unknown function, DUF829, which is approximately 240 amino acids long. This domain has not been found in proteins other than TMEM53 and its orthologs.

Based on human and mouse EST profiles and a human tissue GEO profile, TMEM53 appears to be expressed ubiquitously at low levels in both normal and cancerous tissues.Transmembrane protein 53 has no paralogs. It does, however, have orthologs extending throughout eukaryotes, from primates to amoeba.

Note: This product is for in vitro research use only