

Mouse Transmembrane protease serine 6 (TMPRSS6) ELISA Kit

Catalog No: #EK6315

Orders: order@signalwayantibody.com

Package Size: #EK6315-1 48T #EK6315-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Transmembrane protease serine 6 (TMPRSS6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	RP5-1170K4.5; IRIDA; membrane-bound mosaic serine proteinase matriptase-2 type II transmembrane serine protease 6
Accession No.	Q9DBI0
Uniprot	Q9DBI0
GeneID	71753;
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:0.781-50 ng/mL

Sensitivity:0.27 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 TMPRSS6 in samples. An antibody specific for TMPRSS6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TMPRSS6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMPRSS6 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 TMPRSS6 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: TMPRSS6 shares 35% sequence identity with human matriptase/ST14 and spinesin/TMPRSS5, and 84.3% identity with mouse Tmprss6. It contains structural features characteristic of type II serine proteinases, including a short hydrophobic domain, a type II transmembrane sequence, 2 CUB domains, 3 LDL receptor repeats, and a C-terminal catalytic domain with structural hallmarks of serine proteinases. A potential phosphorylation domain is present at the cytoplasmic tail. Sequence alignment of the catalytic domains of TMPRSS6 and other type II serine proteinase family members permitted the identification of several conserved domains. Northern blot analysis of multiple human tissues revealed expression of a 3.5-kb TMPRSS6 transcript exclusively in fetal and adult liver.

Note: This product is for in vitro research use only