Rat Transmembrane protease serine 9 (TMPRSS9) ELISA Kit

Catalog No: #EK6314

Package Size: #EK6314-1 48T #EK6314-2 96T

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

Description

Product Name	Rat Transmembrane protease serine 9 (TMPRSS9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	FLJ16193; polyserase 1|transmembrane serine protease 9
Accession No.	P69526
Uniprot	P69526
GeneID	314636;
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 TMPRSS9 in samples. An antibody specific for TMPRSS9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMPRSS9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMPRSS9 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 TMPRSS9 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TMPRSS9 contains a predicted type II transmembrane segment, an LDLR domain, and 3 protease domains, which they called serase-1, -2, and -3. The C-terminal serase-3 domain is predicted to be catalytically inactive. TMPRSS9 shares approximately 80% amino acid identity with both mouse and rat Tmprss9, and the protease domains share 40% to 48% amino acid identity with matriptase (ST14) and matriptase-2 (TMPRSS6). Northern blot analysis detected a 5.4-kb transcript in all adult tissues examined, fetal kidney, liver, lung, and brain, and in several tumor cell lines. Minor transcripts of 3.8 and 2.4 kb were detected in adult skeletal muscle, liver, placenta, and heart. Immunofluorescence microscopy localized TMPRSS9 to the plasma membrane in COS-7 cells.

Note: This product is for in vitro research use only