

# Rat Transmembrane protein 55A (TMEM55A) ELISA Kit



Catalog No: #EK6394

Orders: order@signalwayantibody.com

Package Size: #EK6394-1 48T #EK6394-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Transmembrane protein 55A (TMEM55A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	DKFZp762O076; PtdIns-4;5-P(2) 4-phosphatase type II
Accession No.	Q4V888
Uniprot	Q4V888
GeneID	362490;
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: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 TMEM55A in samples. An antibody specific for TMEM55A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM55A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM55A 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 TMEM55A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TMEM55A catalyzes the degradation of phosphatidylinositol 4,5-bisphosphate (PtdIns-4,5-P2) by removing the 4-phosphate.The deduced 300-amino acid protein contains a central Cx(5)R phosphatase catalytic motif and 2 transmembrane domains near its C terminus, a characteristic of lysosomal transmembrane proteins. RNA dot blot analysis detected expression in all tissues examined. Fluorescence-tagged TMEM55A localized with membrane markers of late endosomes or lysosomes.Ungewickell et al. (2005) assayed the phosphatase activity of TMEM55A synthesized in insect cells and found that it specifically catalyzed removal of the 4-phosphate from PtdIns-4,5-P2. It showed no activity toward other phosphatidylinositol substrates or inositol phosphates tested.

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Note: This product is for in vitro research use only