

Rat Transmembrane protein 55B (TMEM55B) ELISA Kit

Catalog No: #EK6390

Orders: order@signalwayantibody.com

Package Size: #EK6390-1 48T #EK6390-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Transmembrane protein 55B (TMEM55B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	C14orf9; DKFZp434M0519; MGC26684; PtdIns-4,5-P(2) 4-phosphatase type I
Accession No.	Q5PPM8
Uniprot	Q5PPM8
GeneID	364298;
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 μ L

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 TMEM55B in samples. An antibody specific for TMEM55B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM55B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM55B 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 TMEM55B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TMEM55B catalyzes the degradation of phosphatidylinositol 4,5-bisphosphate (PtdIns-4,5-P2) by removing the 4-phosphate. The deduced 257-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 TMEM55B localized with membrane markers of late endosomes or lysosomes. Endogenous HeLa cell TMEM55B showed a similar distribution.It showed no activity toward other phosphatidylinositol substrates or inositol phosphates tested. Overexpression of TMEM55B in human embryonic kidney cells reduced the total cellular level of PtdIns-4,5-P2.

Note: This product is for in vitro research use only