Rat Transmembrane protein 97 (TMEM97) ELISA Kit

Catalog No: #EK6351

Package Size: #EK6351-1 48T #EK6351-2 96T

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

Description

Product Name	Rat Transmembrane protein 97 (TMEM97) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	MAC30;
Accession No.	Q5U3Y7
Uniprot	Q5U3Y7
GeneID	303330;
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 TMEM97 in samples. An antibody specific for TMEM97 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM97 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM97 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 TMEM97 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TMEM97 is a conserved integral membrane protein that plays a role in controlling cellular cholesterol levels.MAC30 expression in all normal human tissues examined, with highest expression in testis and stomach and lowest expression in thyroid, thymus, and adipose tissue.In situ hybridization detected MAC30 in normal pancreatic acini, islets, and large ducts. Immunohistochemical analysis showed MAC30 protein in the cytoplasm of peripheral pancreatic islet cells, in endothelial and smooth muscle cells of blood vessels, and in nerves, monocytes, and fibroblasts. In esophagus, MAC30 was detected in cytoplasm of mucosal cells, particularly in the superficial and intermediate epithelial layers. Gastric submucosa and muscularis and normal colonic epithelium exhibited staining patterns similar to that of esophagus.

Note: This product is for in vitro research use only