

Rat Collectrin (TMEM27) ELISA Kit

Catalog No: #EK6403



Package Size: #EK6403-1 48T #EK6403-2 96T

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Description

Product Name	Rat Collectrin (TMEM27) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	NX-17; NX17; 0610008J07Rik collectrin kidney-specific membrane protein
Accession No.	Q9ESG3
Uniprot	Q9ESG3
GeneID	57395;
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:0.156-10 ng/mL

Sensitivity:0.061 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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TMEM27 in samples. An antibody specific for TMEM27 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM27 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM27 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 TMEM27 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TMEM27 encodes a transmembrane protein that is important for trafficking amino acid transporters to the apical brush border of proximal tubules. It also plays a role in controlling insulin exocytosis by regulating formation of the SNARE (soluble N-ethylmaleimide-sensitive-factor attachment protein receptor) complex in pancreatic beta cells. TMEM27 has an N-terminal signal sequence, followed by a noncatalytic extracellular domain, a transmembrane segment, and a cytosolic domain. The extracellular domain contains an O-glycosylation site and 2 N-glycosylation sites. Human TMEM27 shares 47.8% identity with the C-terminal end of ACE2, but it lacks an ACE2-like catalytic domain. Northern blot analysis of rat, mouse, and human tissues detected a transcript of about 1.8 kb exclusively in kidney.

Note: This product is for in vitro research use only