Rat Transmembrane protein 176A (TMEM176A) ELISA Kit

Catalog No: #EK6405

Package Size: #EK6405-1 48T #EK6405-2 96T

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Description

Product Name	Rat Transmembrane protein 176A (TMEM176A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	GS188; HCA112; hepatocellular carcinoma-associated antigen 112|likley ortholog of mouse GS188
Accession No.	Q4G068
Uniprot	Q4G068
GeneID	297077;
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:1.56-100 ng/mL

Sensitivity:0.61 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 TMEM176A in samples. An antibody specific for TMEM176A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM176A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM176A 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 TMEM176A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By serologic analysis of recombinant cDNA expression libraries (SEREX) from 4 hepatocellular carcinoma patients, Wang et al. (2002) cloned HCA112. The deduced protein contains 235 amino acids. RT-PCR detected HCA112 expression in human kidney, lung, and pancreas, but not in any other tissue examined.

Nakajima et al. (2002) cloned the mouse homolog of HCA112, Gs188. The deduced 244-amino acid protein has a calculated molecular mass of 26.6 kD and contains 4 putative hydrophobic domains. Northern blot analysis detected Gs188 expression in mouse kidney, lung, and spleen; little to no expression was detected in other tissues examined.

Note: This product is for in vitro research use only