Human Integral membrane protein GPR137B (GPR137B) ELISA Kit

Catalog No: #EK11584

Package Size: #EK11584-1 48T #EK11584-2 96T

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Description

Product Name	Human Integral membrane protein GPR137B (GPR137B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	TM7SF1; transmembrane 7 superfamily member 1 (upregulated in kidney)
Accession No.	O60478
Uniprot	O60478
GeneID	7107;
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:0.625-40 ng/mL

Sensitivity:0.252 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 GPR137B in samples. An antibody specific for GPR137B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGPR137B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GPR137B 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 GPR137B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TM7SF1, a gene that is transcriptionally upregulated during kidney development. RT-PCR detected 3 alternatively spliced TM7SF1 transcripts, which the authors named TM7SF1-long (TM7SF1L), TM7SF1-intermediate (TM7SF1I), and TM7SF1-short (TM7SF1S).

Northern blot analysis detected an approximately 2.4-kb TM7SF1 transcript at highest levels in human kidney and heart, with lower levels detected in brain and placenta. Additional experiments found TM7SF1 expression in spinal cord, caudate nucleus, and putamen. Studies on Wilms tumor samples showed variable TM7SF1 expression, ranging from nearly undetectable levels to an abundant level of expression comparable to that of adult kidney tissue.

Note: This product is for in vitro research use only