

Mouse Transient receptor potential cation channel subfamily M member 2 (TRPM2) ELISA Kit

Catalog No: #EK6001

Package Size: #EK6001-1 48T #EK6001-2 96T

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Description

Product Name	Mouse Transient receptor potential cation channel subfamily M member 2 (TRPM2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	EREG1; KNP3; LTRPC2; MGC133383; NUDT9H; NUDT9L1; TRPC7; OTTHUMP00000109530 estrogen responsive element associated gene 1 long transient receptor potential channel 2 transient receptor potential chan
Accession No.	Q91YD4
Uniprot	Q91YD4
GeneID	28240;
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:18.75-1200 ng/mL

Sensitivity:7.5 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 TRPM2 in samples. An antibody specific for TRPM2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPM2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPM2 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 TRPM2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:TRPM3 belongs to the family of transient receptor potential (TRP) channels. TRP channels are cation-selective channels important for cellular calcium signaling and homeostasis. The protein encoded by this gene mediates calcium entry, and this entry is potentiated by calcium store depletion. Alternatively spliced transcript variants encoding different isoforms have been -identified. TRPM3 was shown to be activated by the neurosteroid pregnenolone sulphate in hepatocytes. The activation causes calcium influx and subsequent insulin release, therefore it is suggested that TRPM3 modulates glucose homeostasis. TRPM3 expression in the cytoplasm of collecting tubular

epithelium. Immunofluorescence and confocal microscopy showed that HA-tagged full-length TRPM3 localizes to the plasmalemmal compartment.

Note: This product is for in vitro research use only