

# Mouse Transient receptor potential cation channel subfamily M member 4 (TRPM4) ELISA Kit

Catalog No: #EK6000

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Package Size: #EK6000-1 48T #EK6000-2 96T

## Description

Product Name	Mouse Transient receptor potential cation channel subfamily M member 4 (TRPM4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	FLJ20041; TRPM4B;
Accession No.	Q7TN37
Uniprot	Q7TN37
GeneID	68667;
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:0.048 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 TRPM4 in samples. An antibody specific for TRPM4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPM4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPM4 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 TRPM4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TRPM4 has 1,040 amino acids and contains 6 putative transmembrane domains. Northern blot analysis detected TRPM4 expression in most adult tissues tested, with highest levels in heart, prostate, and colon. In fetus, TRPM4 expression was most abundant in kidney. There were at least 2 distinct bands detected (6.2 and 4.2 kb), indicating alternative splicing of TRPM4. In addition, a smaller but relatively abundant 2.4-kb transcript was detected in testis.The shorter protein results from alternative splicing, with the third and fourth exons being spliced out and the beginning of the first exon being truncated. As a consequence, the first in-frame methionine lies in the fifth exon, resulting in the deletion of the first 174 amino acids.

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Note: This product is for in vitro research use only