

Human Transient receptor potential cation channel subfamily M member 1 (TRPM1) ELISA Kit

Catalog No: #EK6003

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Package Size: #EK6003-1 48T #EK6003-2 96T

Description

Product Name	Human Transient receptor potential cation channel subfamily M member 1 (TRPM1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LTRPC1; MLSN1; melastatin 1
Accession No.	Q7Z4N2
Uniprot	Q7Z4N2
GeneID	4308;
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:0.051 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 TRPM1 in samples. An antibody specific for TRPM1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPM1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPM1 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 TRPM1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Transient receptor potential cation channel subfamily M member 1 is a protein similar to the transient receptor potential (Trp) calcium channel family members. The expression of this protein is inversely correlated with melanoma aggressiveness, suggesting that it suppresses melanoma metastasis. The expression of the TRPM1 gene is regulated by the Microphthalmia-associated transcription factor. Northern blot analysis of mouse tissues and cell lines revealed that melastatin was expressed as a 2.8-kb mRNA in normal eye and in 4 melanoma cell lines; its expression in each of the 4 cell lines was inversely proportional to metastatic potential. In 45 human melanocytic primary neoplasms examined by in situ hybridization, the loss of melastatin expression correlated with the thickness of the melanomas.

Note: This product is for in vitro research use only