Human Transient receptor potential cation channel subfamily M member 8 (TRPM8) ELISA Kit

Catalog No: #EK5997

Package Size: #EK5997-1 48T #EK5997-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Transient receptor potential cation channel subfamily M member 8 (TRPM8) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LTRPC6; MGC2849; TRPP8; short form of the TRPM8 cationic channel|transient receptor potential subfamily M member 8
Accession No.	Q7Z2W7
Uniprot	Q7Z2W7
GeneID	79054;
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:0.312-20 ng/mL

Sensitivity:0.112 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 TRPM8 in samples. An antibody specific for TRPM8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPM8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPM8 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 TRPM8 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TRPM8 is an ion channel, upon activation it allows the entry of Na+ (sodium) and Ca2+ (calcium) ions to the cell that leads to depolarization and the generation of an action potential. This eventually leads to the feeling of cold. The TRPM8 protein is expresed in sensory neurons, and it is activated by cold temperatures and cooling agents, such as menthol and icilin where as WS-12 and CPS-369 are the most selective agonist of TRPM8.TRPM8 is also expressed in the prostate, lungs, and bladder where its function is not very well understood.TRPM8 upregulation in bladder tissues correlates with pain in patients with painful bladder syndromes.Furthermore, TRPM8 is upregulated in many prostate cancer cell lines and Dendreon/Genentech are pursuing an agonist approach to induce apoptosis and prostate cancer cell death.

Note: This product is for in vitro research use only