

Rat Transient Receptor Potential Cation Channel Subfamily M Member 7 (TRPM7) ELISA Kit | TRPM7 elisa kit

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CATALOG # AAA330167	REACTIVITY Rat
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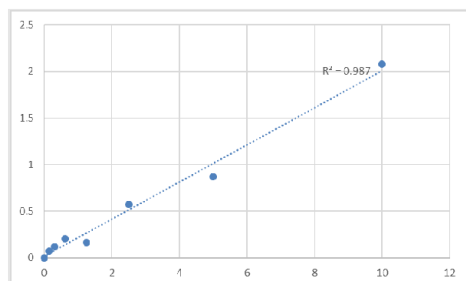
PRODUCT SYNONYMS

Transient Receptor Potential Cation Channel Subfamily M Member 7 (TRPM7); Rat Transient Receptor Potential Cation Channel Subfamily M Member 7 (TRPM7) ELISA Kit; TRPM7; CHAK; CHAK1; FLJ20117; FLJ25718; LTRPC7; TRP-PLIK; LTRPC ion channel family member 7; TRPM7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Transient receptor potential cation channel subfamily M member 7 (TRPM7) ELISA Kit has high sensitivity and excellent specificity for detection of Rat TRPM7. No significant cross-reactivity or interference between Rat TRPM7 and analogues was observed.
Sequence Length	1862
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Transient receptor potential cation channel subfamily M member 7 (TRPM7) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TRPM7 elisa kit	Description: This Rat Transient receptor potential cation channel subfamily M member 7 (TRPM7) ELISA Kit employs a two-site sandwich ELISA to quantitate TRPM7 in samples. An antibody specific for TRPM7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TRPM7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPM7 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 TRPM7 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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 expressed 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	215274952
NCBI GeneID	679906
UniProt Accession #	Q925B3
NCBI Official Full Name	Transient receptor potential cation channel subfamily M member 7
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily M, member 7
NCBI Official Symbol	Trpm7
NCBI Official Synonym Symbols	Chak; Ltrpc7; LTrpC-7; Trp-plik
NCBI Protein Information	transient receptor potential cation channel subfamily M member 7
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 7
UniProt Gene Name	Trpm7
UniProt Synonym Gene Names	TRP-PLIK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/transient-receptor-potential-cation-channel-subfamily-m-member-7-trpm7/330167>