

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

Mouse Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7)(Sandwich ELISA) ELISA Kit

CATALOG # AAA152450	REACTIVITY Mouse
-------------------------------	----------------------------

PRODUCT SYNONYMS

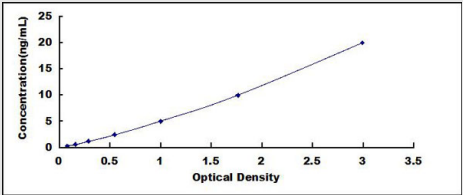
Transient Receptor Potential Cation Channel Subfamily M; Member 7 (TRPM7); Mouse Transient Receptor Potential Cation Channel Subfamily M; Member 7 (TRPM7)(Sandwich ELISA) ELISA Kit; ELISA Kit for Transient Receptor Potential Cation Channel Subfamily M; CHAK; CHAK1; LTRPC7; TRP-PLIK; Channel-kinase 1; Long transient receptor potential channel 7; TRPM7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Detects protein (regular version) Reactive with Mouse TRPM7/Transient Receptor Potential Cation Channel Subfamily M, Member 7 This assay has high sensitivity and excellent specificity for detection of Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7). No significant cross-reactivity or interference between Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.121ng/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for TRPM7 ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	256773287
NCBI GeneID	58800
NCBI Accession #	NP_001157797.1
NCBI GenBank Nucleotide #	NM_001164325.1
UniProt Accession #	Q923J1; Q8C7S7; Q8CE54; Q921Y5; Q925B2; Q9CUT2; Q9JLQ1; A2AI58
Molecular Weight	212,399 Da
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 7 isoform 2
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily M, member 7
NCBI Official Symbol	Trpm7
NCBI Official Synonym Symbols	CHAK; CHAK1; Ltpr7; Ltrpc7; LTrpC-7; TRPPLIK; 2310022G15Rik; 4833414K03Rik; 5033407O22Rik
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	Chak; Ltrpc7; LTrpC-7; LTrpC7; 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.