TRPM7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPM7, Polyclonal Antibody
Full Product Name	TRPM7 Rabbit pAb
Product Gene Name	anti-TRPM7 antibody
Product Synonym Names	ALSPDC; CHAK; CHAK1; LTrpC7; TRPM7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	213kDa
OMIM	105500
3D Structure	ModBase 3D Structure for Q96QT4
Immunogen	A synthesized peptide derived from human TRPM7
Cellular Localization	Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TRPM7 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-TRPM7 antibody	WB: 1:500-1:2000 ICC/IF: 1:50-1:200 FC/FACS: 1:100
Related Product Information for anti-TRPM7 antibody	Essential ion channel and serine/threonine-protein kinase. Divalent cation channel permeable to calcium and magnesium. Has a central role in magnesium ion homeostasis and in the regulation of anoxic neuronal cell death.
Other Notes	Small volumes of anti-TRPM7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRPM7 purchase	MBS8543611 is an antibody targeting TRPM7. Also known as TRPM7 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPM7. It may not necessarily be applicable to this product.

NCBI GI #	148612863
NCBI GeneID	54822
NCBI Accession #	NP_060142.3

UniProt Primary Accession #	Q96QT4
UniProt Related Accession #	Q96QT4
GenBank Nucleotide #	NP_060142.3
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 7 isoform a
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily M member 7
NCBI Official Symbol	TRPM7
NCBI Official Synonym Symbols	CHAK; CHAK1; ALSPDC; LTRPC7; LTrpC-7; TRP-PLIK
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 7
UniProt Synonym Protein Names	Channel-kinase 1; Long transient receptor potential channel 7
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPM7
UniProt Synonym Gene Names	CHAK1; LTRPC7; LTrpC-7; LTrpC7
UniProt Entry Name	TRPM7_HUMAN
NCBI Protein Information	transient receptor potential cation channel subfamily M member 7
NCBI Summary for TRPM7	This gene belongs to the melastatin subfamily of transient receptor potential family of ion channels. The protein encoded by this gene is both an ion channel and a serine/threonine protein kinase. The kinase activity is essential for the ion channel function, which serves to increase intracellular calcium levels and to help regulate magnesium ion homeostasis. The encoded protein is involved in cytoskeletal organization, cell adhesion, cell migration and organogenesis. Defects in this gene are a cause of amyotrophic lateral sclerosis-parkinsonism/dementia complex of Guam. The gene may also be associated with defects of cardiac function. [provided by RefSeq, Aug 2017]
Research Articles on TRPM7	**1.** Several mechanosensitive ion channels expressed in dental sensory systems have been suggested as key players in the hydrodynamic theory, and TRPM7, which is abundant in the odontoblasts, and recently discovered PIEZO receptors are promising candidates.
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