TRPM5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPM5, Polyclonal Antibody
Full Product Name	TRPM5 Antibody
Product Gene Name	anti-TRPM5 antibody
Product Synonym Names	MTR1; LTRPC5
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total TRPM5 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	97,738 Da
OMIM	604600
3D Structure	ModBase 3D Structure for Q9NZQ8
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human transient receptor potential cation channel, subfamily M, member 5
Product Categories/Family for anti-TRPM5 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TRPM5 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TRPM5 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-TRPM5 antibody	This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na+, K+, and Cs+ ions equally well, but not Ca (2+) ions. It is activated by lower concentrations of intracellular Ca (2+), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele
Other Notes	Small volumes of anti-TRPM5 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 TRPM5 purchase	MBS8590625 is an antibody targeting TRPM5. Also known as TRPM5 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPM5. It may not necessarily be applicable to this product.

NCBI GI #	11225266
NCBI GeneID	29850
NCBI Accession #	NP_055370.1
UniProt Primary Accession #	Q9NZQ8
UniProt Secondary Accession #	Q52LU2; Q9NY34; A6NHS0
UniProt Related Accession #	Q9NZQ8
GenBank Nucleotide #	NM_014555.3
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 5
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily M member 5
NCBI Official Symbol	TRPM5
NCBI Official Synonym Symbols	MTR1; LTRPC5
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 5
UniProt Synonym Protein Names	Long transient receptor potential channel 5; LTrpC-5; LTrpC5; MLSN1- and TRP-related gene 1 protein
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPM5
UniProt Synonym Gene Names	LTrpC-5; LTrpC5
UniProt Entry Name	TRPM5_HUMAN
NCBI Protein Information	transient receptor potential cation channel subfamily M member 5
NCBI Summary for TRPM5	This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na+, K+, and Cs+ ions equally well, but not Ca(2+) ions. It is activated by lower concentrations of intracellular Ca(2+), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele. [provided by RefSeq, Oct 2010]

UniProt Comments for TRPM5	TRPM5: Voltage-modulated Ca(2+)-activated, monovalent cation channel (VCAM) that mediates a transient membrane depolarization and plays a central role in taste transduction. Monovalent- specific, non-selective cation channel that mediates the transport of Na(+), K(+) and Cs(+) ions equally well. Activated directly by increases in intracellular Ca(2+), but is impermeable to it. Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in Ca(2+). Also activated by a fast intracellular Ca(2+) increase in response to inositol 1,4,5- triphosphate-producing receptor agonists. The channel is blocked by extracellular acidification. External acidification has 2 effects, a fast reversible block of the current and a slower irreversible enhancement of current inactivation. Is a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. Heat activation is due to a shift of the voltage- dependent activation curve to negative potentials. Activated by arachidonic acid in vitro. May be involved in perception of bitter, sweet and umami tastes. May also be involved in sensing semiochemicals. Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM5 sub-subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: cell soma; dendrite; integral to membrane; plasma membrane Molecular Function: calcium activated cation channel activity; ion channel activity; potassium channel activity; sodium channel activity; voltage-gated ion channel activity Biological Process: sensory perception of taste
Research Articles on TRPM5	**1.** The PKC-dependent effect of GLP-1 on membrane potential and electrical activity was mediated by activation of Na(+)-permeable TRPM4 and TRPM5 channels by mobilization of intracellular Ca(2+) from thapsigargin-sensitive Ca(2+) stores
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