TRPM8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPM8, Polyclonal Antibody
Full Product Name	TRPM8 Antibody BIOTIN-Conjugated
Product Gene Name	anti-TRPM8 antibody
Product Synonym Names	Long transient receptor potential channel 6; LTrpC6; Short form of the TRPM8 cationic channel; Transient receptor potential cation channel subfamily M member 8; Transient receptor potential p8; TRPP8 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat, Mouse
Form/Format	BIOTIN-Conjugated
Concentration	0.6 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: TRPM8 (MBS5400177) Positive Control: TRPM8 (MBS543355)
Antibody/Peptide Pairs	TRPM8 peptide (MBS544622) is used for blocking the activity of TRPM8 antibody (MBS5400177)
Molecular Weight	127,629 Da
3D Structure	ModBase 3D Structure for Q8R455
Immunogen	Synthetic peptide corresponding to unique amino acid sequence on TRPM8 protein.
Expression	Expressed in dorsal root and trigeminal ganglia. Specifically expressed in a subset of sensory neurons, including cold-sensitive neurons in trigeminal neurons.
Molecular Function	Calcium channel activity
Subcellular Location	cell membrane, multi-pass membrane protein, membrane raft. (Note: Localizes to membrane rafts but is also loated in the cell membrane outside of these regions where channel response to cold is enhanced compared to membrane rafts)
Applications Tested/Suitable for anti-TRPM8 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-TRPM8 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Western Blot: 1:500
Related Product Information for anti-TRPM8 antibody	BIOTIN-Conjugated Transient receptor potential cation channel subfamily M member 8 Antibody Involved in detection of sensations such as coolness, activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH
Other Notes	Small volumes of anti-TRPM8 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 TRPM8 purchase	MBS5400177 is an antibody targeting TRPM8. Also known as TRPM8 Antibody BIOTIN-Conjugated. Reactive in Rat, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPM8. It may not necessarily be applicable to this product.

NCBI GI #	52851375
NCBI GeneID	171384
NCBI Accession #	NP_599198.2
UniProt Primary Accession #	Q8R455
UniProt Related Accession #	Q8R455
GenBank Nucleotide #	NM_134371.2
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 8
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily M, member 8
NCBI Official Symbol	Trpm8
NCBI Official Synonym Symbols	CMR1
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 8
UniProt Synonym Protein Names	Cold menthol receptor 1
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	Trpm8
UniProt Synonym Gene Names	Cmr1
UniProt Entry Name	TRPM8_RAT
NCBI Protein Information	transient receptor potential cation channel subfamily M member 8
NCBI Summary for TRPM8	excitatory ion channel; may be involved in transducing cold stimuli [RGD, Feb 2006]
UniProt Comments for TRPM8	TRPM8: Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH. Involved in menthol sensation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium. Temperature sensing is tightly linked to voltage-dependent gating. Activated upon depolarization, changes in temperature resulting in graded shifts of its voltage-dependent activation curves. The chemical agonists menthol functions as a gating modifier, shifting activation curves towards physiological membrane potentials. Temperature sensitivity arises from a tenfold difference in the activation energies associated with voltage-dependent opening and closing. Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM8 sub-subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Channel, cation; Membrane protein, integral Cellular Component: external side of plasma membrane; integral to membrane; lipid raft; membrane Molecular Function: calcium channel activity; ion channel activity; protein homodimerization activity Biological Process: calcium ion transport; cellular calcium ion homeostasis; detection of temperature stimulus; protein homotetramerization; response to cold; response to temperature stimulus; thermoception
Research Articles on TRPM8	**1.** Retrograde tracing method indicated that TRPM8-IR nerve fibers in the gingiva and incisive papilla originate from small sensory neurons in the trigeminal ganglion.
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