TRPM8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPM8, Polyclonal Antibody
Full Product Name	TRPM8 Conjugated Antibody
Product Gene Name	anti-TRPM8 antibody
Product Synonym Names	TRPP8; LTRPC6
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total TRPM8 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	79,096 Da
OMIM	606678
3D Structure	ModBase 3D Structure for Q7Z2W7
Immunogen	Full length fusion protein
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-TRPM8 antibody	Most Applications
Application Notes for anti-TRPM8 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-TRPM8 antibody	Transient receptor potential ion channels (TRPC) are a superfamily of six transmembrane segment-spanning gated cation channels. TRP subtypes mediate store-operated Ca2+ entry, a process involving Ca2+ influx and replenishment of Ca2+ stores formerly emptied through the action of inositol 1, 4, 5-trisphosphate production and other Ca2+ mobilizing agents.
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	MBS9447072 is an antibody targeting TRPM8. Also known as TRPM8 Conjugated Antibody. Reactive in Human. 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 #	33876028
NCBI GeneID	79054
NCBI Accession #	BC001135
UniProt Primary Accession #	Q7Z2W7
UniProt Secondary Accession #	Q3YFM7; Q6QNH9; Q8TAC3; Q8TDX8; Q9BVK1; A0AVG2
UniProt Related Accession #	Q7Z2W7
NCBI Official Full Name	Homo sapiens transient receptor potential cation channel, subfamily M, member 8, mRNA
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily M member 8
NCBI Official Symbol	TRPM8
NCBI Official Synonym Symbols	TRPP8; LTRPC6
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 8
UniProt Synonym Protein Names	Long transient receptor potential channel 6; LTrpC-6; LTrpC6; Transient receptor potential p8; Trp-p8
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPM8
UniProt Synonym Gene Names	LTRPC6; TRPP8; LTrpC-6; LTrpC6; Trp-p8
UniProt Entry Name	TRPM8_HUMAN
NCBI Protein Information	transient receptor potential cation channel subfamily M member 8
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 Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: endoplasmic reticulum membrane; external side of plasma membrane; integral to membrane; lipid raft; plasma membrane Molecular Function: calcium channel activity; protein binding; protein homodimerization activity Biological Process: cellular calcium ion homeostasis; detection of temperature stimulus; protein homotetramerization; response to cold; thermoception
Research Articles on TRPM8	**1.** Study used a combination of molecular modeling and experimental techniques to examine the structure of the TRPM8 transmembrane and pore helix region including the conducting conformation of the selectivity filter
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