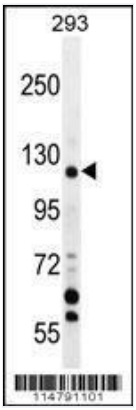
TRPM8 Antibody – Rabbit Polyclonal

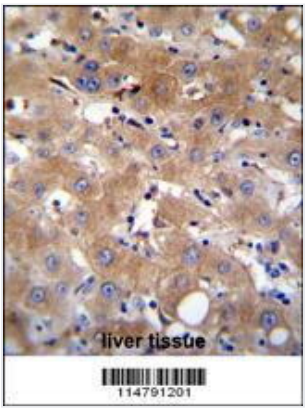
PRODUCT OVERVIEW

Product Name	TRPM8, Polyclonal Antibody
Full Product Name	TRPM8, ID (TRPM8, LTRPC6, TRPP8, Transient receptor potential cation channel subfamily M member 8, Long transient receptor potential channel 6, Transient receptor potential p8) (MaxLight 490)
Product Gene Name	anti-TRPM8 antibody
Product Synonym Names	TRPM8; LTRPC6; TRPP8; Transient receptor potential cation channel subfamily M member 8; Long transient receptor potential channel 6; Transient receptor potential p8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	79,096 Da
OMIM	606678
3D Structure	ModBase 3D Structure for Q7Z2W7
Immunogen	TRPM8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-300 amino acids from the Central region of human TRPM8.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-TRPM8 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-TRPM8 antibody	Immunofluorescence (IF), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TRPM8 antibody	IF: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-TRPM8 antibody	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.

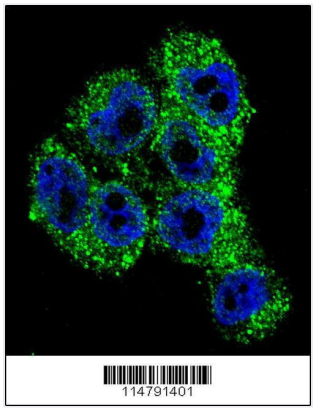
Product References and Citations for anti-TRPM8 antibody	Yee, N.S., et al. Cancer Lett. 297(1):49-55(2010). Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Kuhn, F.J., et al. J. Biol. Chem. 285(35):26806-26814(2010). Gkika, D., et al. Oncogene 29(32):4611-4616(2010). Van Haute, C., et al. ScientificWorldJournal 10, 1597-1611 (2010).
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	MBS6358875 is an antibody targeting TRPM8. Also known as TRPM8, ID (TRPM8, LTRPC6, TRPP8, Transient receptor potential cation channel subfamily M member 8, Long transient receptor potential channel 6, Transient receptor potential p8) (MaxLight 490). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TRPM8 antibody
TRPM8 Antibody (Center) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the TRPM8 antibody detected the TRPM8 protein (arrow).



Immunohistochemistry (IHC) of anti-TRPM8 antibody
TRPM8 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TRPM8 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-TRPM8 antibody
Confocal immunofluorescent analysis of TRPM8 Antibody (Center) with A375 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	109689695
NCBI GeneID	79054
NCBI Accession #	NP_076985.4
UniProt Primary Accession #	Q7Z2W7
UniProt Secondary Accession #	Q3YFM7; Q6QNH9; Q8TAC3; Q8TDX8; Q9BVK1; A0AVG2
UniProt Related Accession #	Q7Z2W7

GenBank Nucleotide #	NM_024080.4
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	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.** TRPM8 underlines the important physiologic role of the nose in temperature regulation, both in patients with allergy and those without allergy. Isometric contraction studies demonstrate the role of TRPM8 in regulating nasal patency and airway resistance.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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