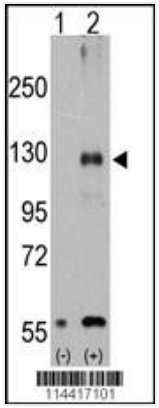
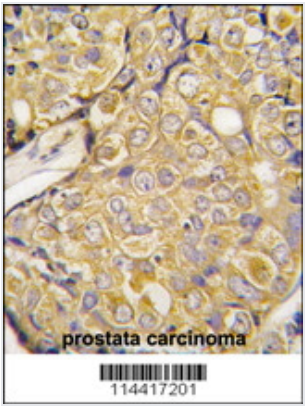
TRPM8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPM8, Polyclonal Antibody
Full Product Name	TRPM8, ID (R536) (Transient Receptor Potential Cation Channel Subfamily M Member 8, Long Transient Receptor Potential Channel 6, LTrpC-6, LTrpC6, Transient Receptor Potential-p8, Trp-p8, LTRPC6, TRPP8) (FITC)
Product Gene Name	anti-TRPM8 antibody
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human TRPM8.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	79,096 Da
OMIM	606678
3D Structure	ModBase 3D Structure for Q7Z2W7
Immunogen	Synthetic peptide at the Center (R536) of human TRPM8 (KLH).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-TRPM8 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-TRPM8 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-TRPM8 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-TRPM8 antibody	MBS6503838 is an antibody targeting TRPM8. Also known as TRPM8, ID (R536) (Transient Receptor Potential Cation Channel Subfamily M Member 8, Long Transient Receptor Potential Channel 6, LTrpC-6, LTrpC6, Transient Receptor Potential-p8, Trp-p8, LTRPC6, TRPP8) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TRPM8 antibody	1. Tsavaler L., Cancer Res. 61:3760-3769(2001). 2. Kiessling A., Prostate 56:270-279(2003). 3. Bodding, M., Cell Calcium 42(6), 618-628 (2007).
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.



Western Blot (WB) of anti-TRPM8 antibody
Western blot analysis of TRPM8 (arrow) using rabbit polyclonal TRPM8 Antibody (Center R536).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TRPM8 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-TRPM8 antibody
Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with TRPM8 antibody (Center R536), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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
UniProt Primary Accession #	Q7Z2W7
UniProt Secondary Accession #	Q3YFM7; Q6QNH9; Q8TAC3; Q8TDX8; Q9BVK1; A0AVG2
UniProt Related Accession #	Q7Z2W7
GenBank Nucleotide #	NM_024080
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; LTrpC-6; long transient receptor potential channel 6; short form of the TRPM8 cationic channel; transient receptor melastatin 8 variant 1; transient receptor melastatin 8 variant 2; transie

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
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