

**TRPM8 Antibody**  
Rabbit mAb  
Catalog # AP91541**Specification**

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**TRPM8 Antibody - Product Information**

Application	<b>WB, ICC</b>
Primary Accession	<a href="#">O7Z2W7</a>
Clonality	<b>Monoclonal</b>
<b>Other Names</b>	
LTrpC6; MGC2849; Transient receptor potential p8; Trp p8; Trpm8; TRPP8;	
Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>127685 Da</b>

**TRPM8 Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human TRPM8</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

**TRPM8 Antibody - Protein Information****Name** TRPM8**Synonyms** LTRPC6, TRPP8**Function**

Non-selective ion channel permeable to monovalent and divalent cations, including Na(+), K(+), and Ca(2+), with higher permeability for Ca(2+). Activated by multiple factors, such as temperature, voltage, pressure, and changes in osmolality. Activated by cool temperatures (<23-28 degrees Celsius) and by chemical ligands evoking a sensation of coolness, such as menthol and icilin therefore plays a central role in the detection of environmental cold temperatures (PubMed: [15306801](http://www.uniprot.org/citations/15306801), PubMed: [15852009](http://www.uniprot.org/citations/15852009), PubMed: [16174775](http://www.uniprot.org/citations/16174775), PubMed: [25559186](http://www.uniprot.org/citations/25559186), PubMed: [37857704](http://www.uniprot.org/citations/37857704))

target="\_blank">37857704</a>). TRPM8 is a voltage-dependent channel; its activation by cold or chemical ligands shifts its voltage thresholds towards physiological membrane potentials, leading to the opening of the channel (PubMed:<a href="http://www.uniprot.org/citations/15306801" target="\_blank">15306801</a>). In addition to its critical role in temperature sensing, regulates basal tear secretion by sensing evaporation-induced cooling and changes in osmolality (By similarity). May plays a role in prostate cancer cell migration (PubMed:<a href="http://www.uniprot.org/citations/16174775" target="\_blank">16174775</a>, PubMed:<a href="http://www.uniprot.org/citations/25559186" target="\_blank">25559186</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Membrane raft {ECO:0000250|UniProtKB:Q8R4D5}. Endoplasmic reticulum membrane. Note=Lipid raft association modulates TRPM8 channel activity (By similarity) Located in the endoplasmic reticulum in prostate cancer cells (PubMed:11325849, PubMed:16174775). {ECO:0000250|UniProtKB:Q8R4D5, ECO:0000269|PubMed:11325849, ECO:0000269|PubMed:16174775}

#### Tissue Location

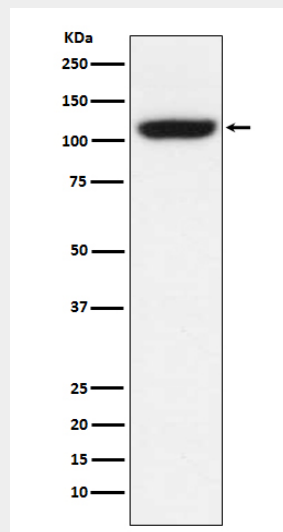
Expressed in prostate. Also expressed in prostate tumors and in non-prostatic primary tumors such as colon, lung, breast and skin tumors.

#### TRPM8 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TRPM8 Antibody - Images



Western blot analysis of TRPM8 expression in A549 cell lysate.