

**Anti-TRPM8 Antibody (Internal)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17581****Specification**

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**Anti-TRPM8 Antibody (Internal) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">O7Z2W7</a>
Predicted	Human, Mouse, Rat, Rabbit, Hamster, Chicken, Horse, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	127685

**Anti-TRPM8 Antibody (Internal) - Additional Information****Gene ID** 79054

Alias Symbol	TRPM8
<b>Other Names</b>	TRPM8, CMR1, Cold-menthol receptor type 1, LTrpC-6, TRPP8, Trp-p8, LTRPC6

**Target/Specificity**

Human TRPM8. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except TRPM2 (60%).

**Reconstitution & Storage**

Immunoaffinity purified

**Precautions**

Anti-TRPM8 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-TRPM8 Antibody (Internal) - 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:<a href="http://www.uniprot.org/citations/15306801" target="\_blank">15306801</a>, PubMed:<a href="http://www.uniprot.org/citations/15852009" target="\_blank">15852009</a>, PubMed:<a href="http://www.uniprot.org/citations/16174775" target="\_blank">16174775</a>)

target="\_blank">16174775</a>, PubMed:<a href="http://www.uniprot.org/citations/25559186" target="\_blank">25559186</a>, PubMed:<a href="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.

### Anti-TRPM8 Antibody (Internal) - 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](#)

### Anti-TRPM8 Antibody (Internal) - Images