

**TRPM8 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2715a

**Specification**

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**TRPM8 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">O7Z2W7</a>
Other Accession	<a href="#">NP_076985.4</a> , <a href="#">79054</a> , <a href="#">171382 (mouse)</a> , <a href="#">171384 (rat)</a>
Predicted Host	Human, Mouse, Rat
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	127685

**TRPM8 Antibody (internal region) - Additional Information**

**Gene ID** 79054

**Other Names**

Transient receptor potential cation channel subfamily M member 8, Long transient receptor potential channel 6, LTrpC-6, LTrpC6, Transient receptor potential p8, Trp-p8, TRPM8, LTRPC6, TRPP8

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TRPM8 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRPM8 Antibody (internal region) - 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>, 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 play 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 (internal region) - 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 (internal region) - Images

#### TRPM8 Antibody (internal region) - References

TRPM8 is required for cold sensation in mice. Dhaka A, Murray AN, Mathur J, Earley TJ, Petrus MJ, Patapoutian A. Neuron. 2007 May 3;54(3):371-8. PMID: 17481391