

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

Specification

Anti-TRPM8 Antibody (Internal) - Product Information

Application	IHC-P
Primary Accession	Q7Z2W7
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
Other Names	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:15306801, PubMed:15852009, PubMed:16174775)

target="_blank">16174775, PubMed:25559186, PubMed:37857704). 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:15306801). 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:16174775, PubMed:25559186).

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