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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**
Dilution	**IHC-P~~N/A**

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:<a href="http://www.uniprot.org/citations/15852009"

target="_blank">15852009, PubMed: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 Cytomety
- Cell Culture

Anti-TRPM8 Antibody (Internal) - Images