

**Anti-TRPM8 Picoband Antibody**  
Catalog # ABO12523

**Specification**

---

**Anti-TRPM8 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q7Z2W7</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Transient receptor potential cation channel subfamily M member 8 (TRPM8) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-TRPM8 Picoband Antibody - 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

**Calculated MW**

127685 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Cell membrane; Multi-pass membrane protein. Membrane raft. Endoplasmic reticulum membrane. Localizes to membrane rafts but is also located in the cell membrane outside of these regions where channel response to cold is enhanced compared to membrane rafts (By similarity). Located in the endoplasmic reticulum in prostate cancer cells. .

**Tissue Specificity**

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

**Protein Name**

Transient receptor potential cation channel subfamily M member 8

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

### Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human TRPM8 (1068-1104aa NTKANDTSEEMRHRFRQLDTKLNLDLKGLLKEIANKIK), different from the related mouse sequence by four amino acids, and from the related rat sequence by two amino acids.

### Purification

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

## Anti-TRPM8 Picoband Antibody - Protein Information

**Name** TRPM8

**Synonyms** LTRPC6, TRPP8

### Function

Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. 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. Temperature sensing is tightly linked to voltage-dependent gating. Activated upon depolarization, changes in temperature resulting in graded shifts of its voltage-dependent activation curves. The chemical agonist menthol functions as a gating modifier, shifting activation curves towards physiological membrane potentials. Temperature sensitivity arises from a tenfold difference in the activation energies associated with voltage-dependent opening and closing. In prostate cancer cells, shows strong inward rectification and high calcium selectivity in contrast to its behavior in normal cells which is characterized by outward rectification and poor cationic selectivity. Plays a role in prostate cancer cell migration (PubMed: [25559186](http://www.uniprot.org/citations/25559186)). Isoform 2 and isoform 3 negatively regulate menthol- and cold-induced channel activity by stabilizing the closed state of the channel.

### Cellular Location

Cell membrane; Multi-pass membrane protein. Membrane raft. Endoplasmic reticulum membrane. Note=Localizes to membrane rafts but is also located in the cell membrane outside of these regions where channel response to cold is enhanced compared to membrane rafts (By similarity). Located in the endoplasmic reticulum in prostate cancer cells.

### Tissue Location

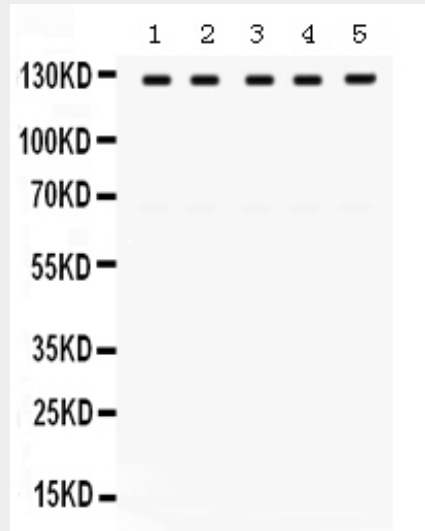
Expressed in prostate. Also expressed in prostate tumors and in non-prostatic primary tumors such as colon, lung, breast and skin tumors.

## Anti-TRPM8 Picoband 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](#)

### Anti-TRPM8 Picoband Antibody - Images



Anti- TRPM8 Picoband antibody, ABO12523, Western blotting All lanes: Anti TRPM8 (ABO12523) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: 22RV1 Whole Cell Lysate at 40ug Lane 3: SW620 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Lane 5: A431 Whole Cell Lysate at 40ug Predicted bind size: 127KD Observed bind size: 127KD

### Anti-TRPM8 Picoband Antibody - Background

Transient receptor potential cation channel subfamily M member 8 (TRPM8), also known as the cold and menthol receptor 1 (CMR1), is a protein that in humans is encoded by the TRPM8 gene. TRPM8 is an ion channel, upon activation it allows the entry of Na<sup>+</sup> (sodium) and Ca<sup>2+</sup> (calcium) ions to the cell that leads to depolarization and the generation of an action potential. The signal is conducted from primary afferents (type C- and A-delta) eventually leading to the sensation of cold and cold pain. The TRPM8 protein is expressed in sensory neurons, and it is activated by cold temperatures and cooling agents, such as menthol and icilin whereas WS-12 and CPS-369 are the most selective agonist of TRPM8.