

TRPM8 antibody

Product Information

Catalog No.:	FNab09023
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

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). Isoform 2 and isoform 3 negatively regulate menthol-and cold-induced channel activity by stabilizing the closed state of the channel.

Immunogen information

Immunogen:	transient receptor potential cation channel, subfamily M, member 8
Synonyms:	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
Observed MW:	128 kDa
Uniprot ID :	Q7Z2W7

Application

Reactivity: Human, Mouse, Rat

Tested Application: ELISA