

ARG40781 anti-TRPM8 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TRPM8
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TRPM8
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 521-552 of Human TRPM8.
Conjugation	Un-conjugated
Alternate Names	TRPP8; Transient receptor potential cation channel subfamily M member 8; Transient receptor potential p8; LTRPC6; Trp-p8; LTrpC6; Long transient receptor potential channel 6; LTrpC-6

Application Instructions

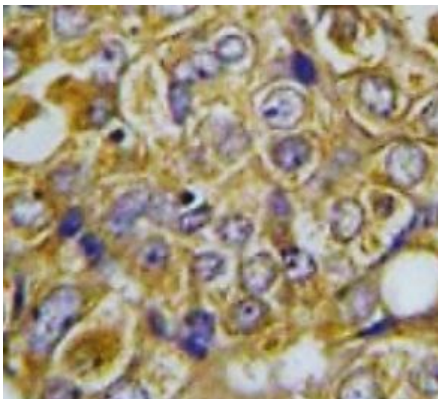
Application table	Application	Dilution
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human brain	

Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

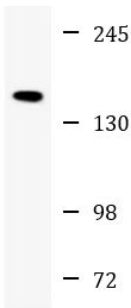
Gene Symbol	TRPM8
Gene Full Name	transient receptor potential cation channel, subfamily M, member 8
Function	Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin, eucalyptol, 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. Isoform 2 and isoform 3 negatively regulate menthol- and cold-induced channel activity by stabilizing the closed state of the channel. [UniProt]
Calculated Mw	128 kDa
Cellular Localization	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. Located in the endoplasmic reticulum in prostate cancer cells. [UniProt]

Images



ARG40781 anti-TRPM8 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human prostata carcinoma tissue stained with ARG40781 anti-TRPM8 antibody.



Human brain

ARG40781 anti-TRPM8 antibody WB image

Western blot: 35 µg of Human brain lysate stained with ARG40781 anti-TRPM8 antibody at 1:1000 dilution.