

TRPM8 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP15181
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from part region of human protein
Mol wt	N/A
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	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

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 agonists 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. Its expression in most prostate tumors as well as the presence of an immunogenic epitope suggest that it may be suitable for the design of peptide vaccination strategies for prostate cancers. The sensation of coolness triggered by eucalyptol or menthol may be explained by the fact that menthol and cool temperatures sensations are detected by this protein. Belongs to the transient receptor family. LTrpC subfamily. Tissue specificity: Expressed in prostate. Also expressed in most in prostate tumors. Also expressed in non-prostatic primary tumors such as colon, lung, breast and skin tumors.

Recommended Dilution

WB: 1: 500 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year