TRPM8 Monoclonal Antibody

Catalog No	YP-mAb-07844
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TRPM8 LTRPC6 TRPP8
Protein Name	Transient receptor potential cation channel subfamily M member 8 (Long transient receptor potential channel 6) (LTrpC-6) (LTrpC6) (Transient receptor potential p8) (Trp-p8)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	TRPM8 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	121kD
Cell Pathway	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.
Function	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 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.,miscellaneous:Its expression in most prostate tumors as
Background	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 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.,miscellaneous: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.,miscellaneous: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.,similarity: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.,
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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