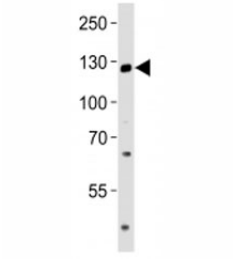
TRPM8 Antibody (F41678)

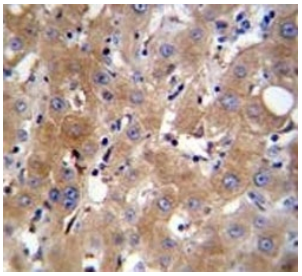
Catalog No.	Formulation	Size
F41678-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41678-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

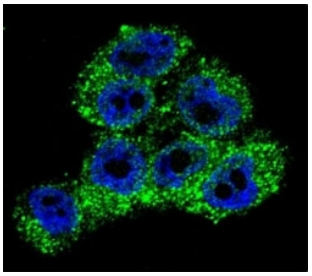
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q7Z2W7
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100 Immunofluorescence: 1:10-1:50
Limitations	This TRPM8 antibody is available for research use only.



Western blot analysis of lysate from LNCaP cell line using TRPM8 antibody at 1:1000. Predicted molecular weight ~128 kDa.



TRPM8 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue.



Confocal immunofluorescent analysis of TRPM8 antibody with A375 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

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.

Application Notes

Titration of the TRPM8 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 263-292 from the human protein was used as the immunogen for this TRPM8 antibody.

Storage

Aliquot the TRPM8 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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