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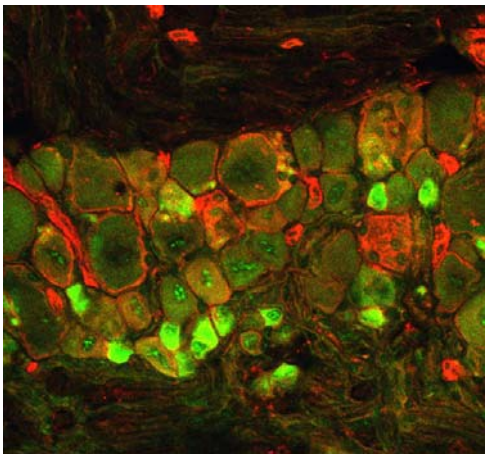
Anti Cold/menthol receptor1(TRPM8) Polyclonal antibody, Rabbit

All mammalians including human being can detect the temperature by their own skin. Recently, several molecular mechanism has been proposed to explain physiological stimuli. For example capsaicin receptors, VR-1/TRPV1and VRL-1/TRPV2, which are related with noxious stimuli were cloned and found that these molecules were activated by temperatures exceeding 43℃ and exceeding 50℃.

Jullus et al. and Patapoutian et al. found novel receptor, cold and menthol-sensitive receptor 1 (CMR1)/TRPM8, and reported to Nature and Cell in which they described that these molecules were activated in temperature range 8～28℃. These findings might become driving force to investigate the mammalian peripheral nervous system. So that, in near future, the advantage of molecular physiology could account for thermal stimuli such as 1）Why human can distinguish between cold and warm？
2）Why the nervous activity accompanied by cold sensation does not always induce an unpleasant feeling or pain?

This antibody is very useful for investigating cold/menthol receptor1 (TRPM8) expression pattern and analyzing the function.

Package Size	25μg（100μL/vial）
Format	Rabbit polyclonal antibody 0.25mg/mL
Buffer	Block Ace as a stabilizer, containing 0.1%Proclin as bacteriostat
Storage	Store below –20℃. Once thawed, store at 4℃. Repeated freeze-thaw cycles should be avoided.
Purification method	This antibody was purified from rabbit serum by affinity chromatography.
Working dilution	Immunohistochemistry : 2 ～5μg/mL



Immunohistochemistry

Sample：Rat dorsal root neuron
(Positive: Green)

Preparation of antibodies and instruction
Dr.Makoto Tominaga at Department of Physiology,
Mie University School of Medicine

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【Reference】

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Distributor

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