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Thermosensitive TRP Channel

Anti Rat TRPV1 (VR-1) Polyclonal Antibody

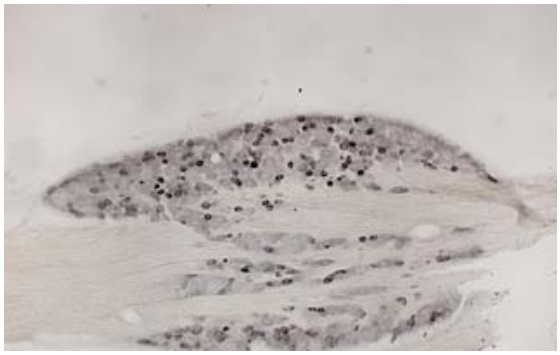
Capsaicin, a pungent ingredient of hot peppers, receptor has six transmembrane domains. It's a non-selective channel with high permeability of Ca^{2+}. Capsaicin, fat-soluble pain stimulus substance, has vanillyl group and is classified into the family of vanilloids. This receptor was named vanilloid receptor subtype 1 (VR-1) first, and is now named TRPV1 (transient receptor potential vanilloid subfamily member 1).

TRPV1 is activated not only by capsaicin but also by heat (over 43℃)or proton, and is found in the study of pain recipience or transmission of stimuli.

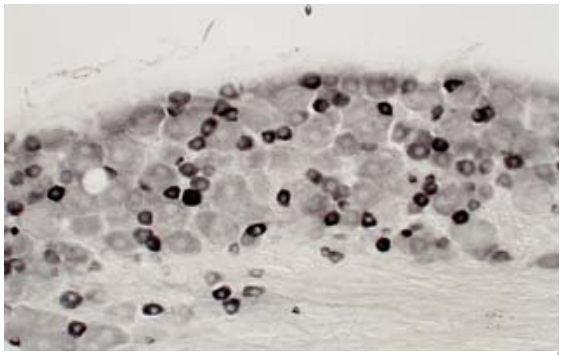
This polyclonal antibody is specific for TRPV1 of rat, and has been proved to be useful for the immunohistochemistry.

Package Size	5 μ g (50 μ L/vial)
Format	Rabbit polyclonal antibody purified by antigen G affinity chromatography.
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1%Proclin as a 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 Protein G affinity chromatography.

Working dilution for immunohistochemistry: 0.1 μ g/mL;



dorsal root ganglion (DRG) of lumbar region (normal rat), 30 μ m of thickness
Fukuoka, T.
Second Department of Anatomy, Hyogo college of medicine, Hyogo, Japan



dorsal root ganglion (DRG) of lumbar region (normal rat), 30 μ m of thickness
Fukuoka, T.
Second Department of Anatomy, Hyogo college of medicine, Hyogo, Japan

Preparation of antibodies and instruction
Tominaga, M.
Department of Physiology, Faculty of Medicine, Mie University, Japan

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【References】

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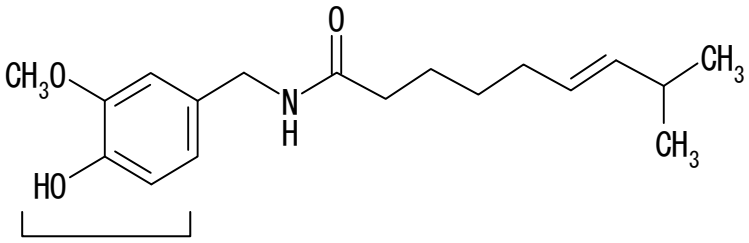
* Application Reference

Chemical structure of capsaicin



vanillyl group

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