TRPV1 polyclonal antibody

Catalog # PAB0698 Size 100 uL

Applications



Immunohistochemistry

Detection of TRPV1 in small neurons in rat dorsal root ganglion (DRG) using rabbit TRPV1 polyclonal antibody (Cat # PAB0698) at 1 : 2000 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TRPV1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 608-621 human TRPV1.
Sequence	PSESTSHRWRGPA
Host	Rabbit
Reactivity	Human, Rat
Form	Lyophilized
Recommend Usage	Immunohistochemistry (1:1000-1:2000) The optimal dilution should be determined by the end user.
Storage Buffer	Lyophilized from whole serum.
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 100 uL of sterile water, store at -20°C. Centrifuge to remove any insoluble m aterial. Or at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additi onal stability. Aliquot to avoid repeated freezing and thawing.

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Applications

- Immunohistochemistry

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Gene Info — TRPV1

Entrez GeneID	7442
Protein Accession#	Q8NER1
Gene Name	TRPV1
Gene Alias	DKFZp434K0220, VR1
Gene Description	transient receptor potential cation channel, subfamily V, member 1
Omim ID	602076
Gene Ontology	Hyperlink
Gene Summary	Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-selecti ve cation channel that is structurally related to members of the TRP family of ion channels. This rec eptor is also activated by increases in temperature in the noxious range, suggesting that it functio ns as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same pr otein, but with different 5' UTR sequence, have been described for this gene. [provided by RefSeq
Other Designations	capsaicin receptor|transient receptor potential vanilloid 1a|transient receptor potential vanilloid 1b| vanilloid receptor subtype 1

Publication Reference

- TRPV1 Channels Are New Players in the Reticulum-Mitochondria Ca2+ Coupling in a Rat Cardiomyoblast Cell Line.

  Nolwenn Tessier, Mallory Ducrozet, Maya Dia, Sally Badawi, Christophe Chouabe, Claire Crola Da Silva, Michel Ovize, Gabriel Bidaux, Fabien Van Coppenolle, Sylvie Ducreux.

  Cells. 2023 Sep; 12(18):2322.

  Application: WB-Ce, IF, Rat, H9c2 cells

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- Characterization of Functional TRPV1 Channels in the Sarcoplasmic Reticulum of Mouse Skeletal Muscle.

  Lotteau S, Ducreux S, Romestaing C, Legrand C, Van Coppenolle F.

  PLoS One 2013 Mar; 8(3):e58673.

  Application: IF, Mouse, Single skeletal fibers

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Abdominal Pain
- Asperger Syndrome
- Asthma
- Autistic Disorder
- Cardiovascular Diseases
- Diabetes Mellitus
- Dyspepsia
- Edema
- Genetic Predisposition to Disease
- Helicobacter Infections
- Obesity
- Pain
- Pancreatitis
- Social Perception
- Tobacco Use Disorder

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