

Product datasheet

Anti-TRPV1 antibody ab31895

★★★★☆ 1 Abreviews 25 References 2 Images

Overview

Product name	Anti-TRPV1 antibody
Description	Rabbit polyclonal to TRPV1
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr
Species reactivity	Reacts with: Mouse Predicted to work with: Guinea pig
Immunogen	Synthetic peptide within Mouse TRPV1 aa 800 to the C-terminus conjugated to keyhole limpet haemocyanin (Cysteine residue). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: Q704Y3

[Run BLAST with](#)

[Run BLAST with](#)

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab31895 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.

Target

Function Receptor-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. May be involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accubens by affecting AMPA receptors endocytosis.

Tissue specificity Widely expressed at low levels. Expression is elevated in dorsal root ganglia. In skin, expressed in cutaneous sensory nerve fibers, mast cells, epidermal keratinocytes, dermal blood vessels, the inner root sheet and the infundibulum of hair follicles, differentiated sebocytes, sweat gland ducts, and the secretory portion of eccrine sweat glands (at protein level).

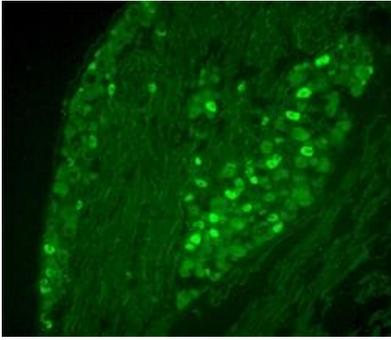
Sequence similarities Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV1 sub-subfamily. Contains 6 ANK repeats.

Domain The association domain (AD) is necessary for self-association.

Post-translational modifications Phosphorylation by PKA reverses capsaicin-induced dephosphorylation at multiple sites, probably including Ser-117 as a major phosphorylation site. Phosphorylation by CAMKII seems to regulate binding to vanilloids. Phosphorylated and modulated by PKCM and probably PKCZ. Dephosphorylation by calcineurin seems to lead to receptor desensitization and phosphorylation by CAMKII recovers activity.

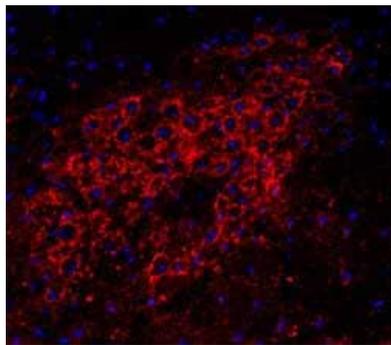
Cellular localization Cell junction > synapse > postsynaptic cell membrane. Cell projection > dendritic spine membrane.

Images



Immunohistochemistry (Frozen sections) - Anti-TRPV1 antibody (ab31895)

ab31895 at 1/1000 demonstrating TRPV1 immunoreactivity in mouse dorsal root ganglion. Animals were perfusion fixed with 2% paraformaldehyde.



Immunohistochemistry (Frozen sections) - Anti-TRPV1 antibody (ab31895)

ab31895 staining mouse inferior olive using Cy3-conjugated donkey anti-rabbit secondary antibodies (red color) and DAPI (blue) as a nuclear counterstain.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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