

Anti-TRPV3 Antibody
Catalog # ABO11286**Specification**

Anti-TRPV3 Antibody - Product Information

Application	WB
Primary Accession	Q8NET8
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Transient receptor potential cation channel subfamily V member 3 (TRPV3) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRPV3 Antibody - Additional Information

Gene ID 162514

Other Names

Transient receptor potential cation channel subfamily V member 3, TrpV3, Vanilloid receptor-like 3, VRL-3, TRPV3

Calculated MW

90636 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Membrane; Multi-pass membrane protein.

Tissue Specificity

Abundantly expressed in CNS. Widely expressed at low levels. Detected in dorsal root ganglion (at protein level). Expressed in the keratinocyte layers of the outer root sheath and, to lesser extent, to the matrix of the hair follicles (at protein level). .

Protein Name

Transient receptor potential cation channel subfamily V member 3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human TRPV3(757-773aa RRTDFNKKIQDSSRNNSK), different from the related rat and mouse sequences by four amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV3 sub-subfamily.

Anti-TRPV3 Antibody - Protein Information**Name** TRPV3**Function**

Putative receptor-activated non-selective calcium permeant cation channel. It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius. Activation exhibits an outward rectification. May associate with TRPV1 and may modulate its activity. Is a negative regulator of hair growth and cycling: TRPV3-coupled signaling suppresses keratinocyte proliferation in hair follicles and induces apoptosis and premature hair follicle regression (catagen).

Cellular Location

Membrane; Multi-pass membrane protein.

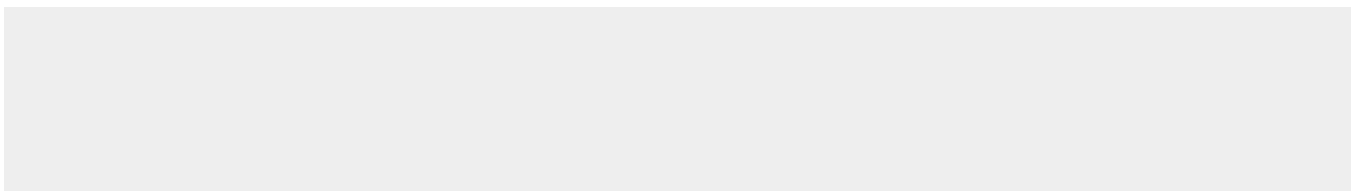
Tissue Location

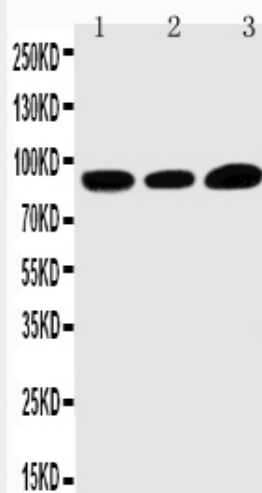
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Anti-TRPV3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-TRPV3 Antibody - Images



Anti-TRPV3 antibody, ABO11286, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: A549 Cell Lysate
Lane 3: MCF-7 Cell Lysate

Anti-TRPV3 Antibody - Background

TRPV3(Transient Receptor Potential Cation Channel Subfamily V Member 3), also known as VRL3, is a human gene encoding the protein of the same name. The TRPV3 protein belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. Peier et al.(2002) localized the TRPV3 gene to a BAC clone mapped to chromosome 17p13. They mapped the mouse gene to chromosome 11B4. Peier et al.(2002) stably expressed mouse Trpv3 in Chinese hamster ovary cells and assayed electrophysiologic activity by whole cell voltage-clamp techniques. They determined that Trpv3 is a cation-permeable channel activated by warm and hot temperatures. Xu et al.(2002) showed that increasing temperature from approximately 22 to 40 degrees Celsius in mammalian cells transfected with human TRPV3 elevated intracellular calcium by activating a nonselective cationic conductance.