

Anti-TRPV3 Antibody

Catalog # ABO11286

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.

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
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). .
Source	Eukaryota
Protein Name	Transient receptor potential cation channel subfamily V member 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRPV3(757-773aa RRTDFNKIQDSSRNNSK), 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 r ° Constitution, 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.

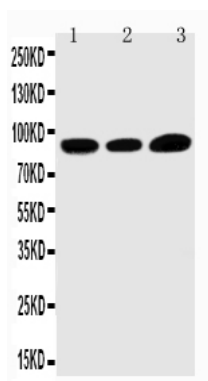
Protein Information

Name	TRPV3
Function	Non-selective calcium permeant cation channel (PubMed: 12077604 , PubMed: 12077606 , PubMed: 26818531 , PubMed: 37648856 , PubMed: 38691614). It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius (PubMed: 12077604 , PubMed: 12077606). Activation exhibits an outward rectification (PubMed: 12077604). The channel pore can dilate to provide permeability to larger cations (PubMed: 37648856). May associate with TRPV1 and may modulate its activity (PubMed: 12077606). 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) (PubMed: 21593771).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasm Lysosome. Note=Targeted to lysosome for degradation in a SNX11-dependent manner.
Tissue Location	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)

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.

Images



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

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