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# Anti-TRPV3 Antibody

Catalog # ABO11286

## Product Information

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| **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

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| **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 □g/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 Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. |
| **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 |

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| **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. |

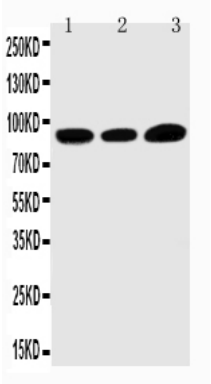
## Protein Information

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| **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 blottingLane 1: HELA Cell LysateLane 2: A549 Cell LysateLane 3: MCF-7 Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.