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Anti-TRPV3 Antibody

Catalog # AP59900

Product Information

Application	WB, IHC
Primary Accession	Q8NET8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90636

Additional Information

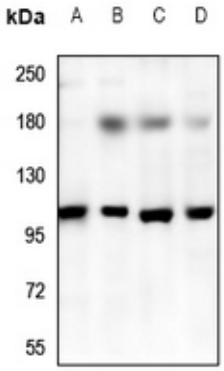
Gene ID	162514
Other Names	Transient receptor potential cation channel subfamily V member 3; TrpV3; Vanilloid receptor-like 3; VRL-3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TRPV3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

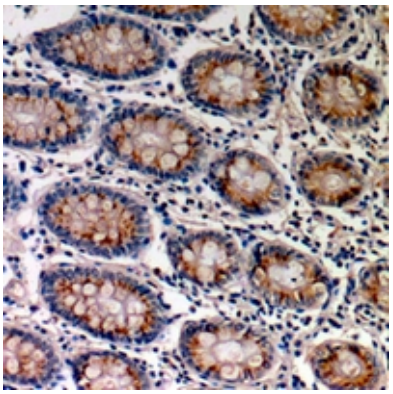
Name	TRPV3
Function	Non-selective calcium permeant cation channel (PubMed: 12077604, PubMed:12077606, PubMed:26818531, PubMed:37648856, PubMed:38691614). It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius (PubMed:12077604, 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)

Images



Western blot analysis of TRPV3 expression in U87MG (A), MCF7 (B), C6 (C), CT26 (D) whole cell lysates. (Predicted band size: 90 kD; Observed band size: 100 kD)



Immunohistochemical analysis of TRPV3 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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