

Mouse TRPV3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1425a

Product Information

Application	IHC-P, WB, E
Primary Accession	Q8K424
Reactivity	Mouse
Predicted	Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB8991
Calculated MW	90663
Antigen Region	90-119

Additional Information

Gene ID	246788
Other Names	Transient receptor potential cation channel subfamily V member 3, Trpv3, Trpv3
Target/Specificity	This Mouse TRPV3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 90-119 amino acids from the N-terminal region of mouse TRPV3.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse TRPV3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Trpv3
Function	Non-selective calcium permeant cation channel (PubMed: 12016205). It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius (By

similarity). Activation exhibits an outward rectification (By similarity). The channel pore can dilate to provide permeability to larger cations (By similarity). May associate with TRPV1 and may modulate its activity (By similarity). 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) (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q8NET8}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8NET8}. Cytoplasm {ECO:0000250|UniProtKB:Q8NET8}. Lysosome {ECO:0000250|UniProtKB:Q8NET8}. Note=Targeted to lysosome for degradation in a SNX11-dependent manner {ECO:0000250|UniProtKB:Q8NET8}

Tissue Location

Expressed in keratinocytes and hair follicles.

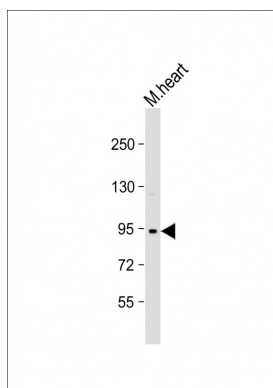
Background

TRPV3 belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. The thermosensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin, and are activated at distinct physiological temperatures. This channel is activated at temperatures between 22 and 40 degrees C. This gene lies in close proximity to another family member (TRPV1) gene on chromosome 17, and the two encoded proteins are thought to associate with each other to form heteromeric channels.

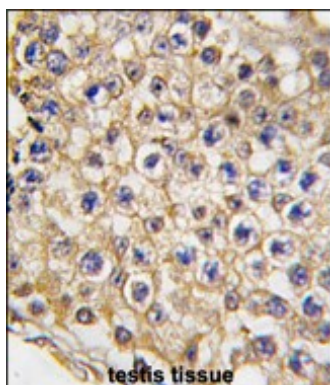
References

Frederick J., Biochem. Biophys. Res. Commun. 358 (4), 1058-1064 (2007)
Asakawa M., J. Invest. Dermatol. 126 (12), 2664-2672 (2006)

Images



Anti-TRPV3 (N-term) at 1:1000 dilution + mouse heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 91kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Formalin-fixed and paraffin-embedded human testis tissue reacted with TRPV3 Antibody (N-term) (Cat.#AP1425a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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