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Rat TRPV3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1425b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q4QYD9
Reactivity	Human, Rat
Predicted	Mouse, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB9399
Calculated MW	90273
Antigen Region	662-692

Additional Information

Other Names	Heat sensitive channel TRPV3
Target/Specificity	This Rat TRPV3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 662-692 amino acids from the C-terminal region of rat TRPV3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	Rat TRPV3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Trpv3 {ECO:0000313|RGD:1564531}
Function	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. The channel pore can dilate to provide permeability to larger cations. 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

Cell membrane {ECO:0000256|ARBA:ARBA00004651}; Multi-pass membrane protein {ECO:0000256|ARBA:ARBA00004651}. Cytoplasm {ECO:0000256|ARBA:ARBA00004496}. Lysosome {ECO:0000256|ARBA:ARBA00004371}

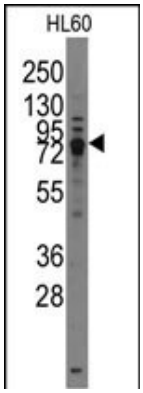
Background

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.

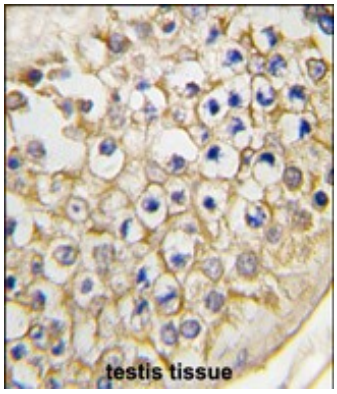
References

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

Images



Western blot analysis of TRPV3 Antibody (C-term) (Cat.#AP1425b) in HL60 cell line lysates (35ug/lane). TRPV3(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with TRPV3 Antibody (C-term) (Cat.#AP1425b), 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'.