

#3484 Store at -20C

TRPV3 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M	Endogenous	98	Rabbit	#Q8NET8	162514

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TRPV3 Antibody detects endogenous levels of total TRPV3 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn101 of human TRPV3. Antibodies are purified by peptide affinity chromatography.

Background

The transient receptor potential cation channel subfamily V member 3 (TRPV3 or VRL3) is a widely expressed ligand-gated ion channel protein that acts in temperature detection between 22° C and 40° C (1). Related transient receptor proteins (TRP) respond to different temperature ranges; TRPA1 responds to cold temperatures and TRPM1 to cool, while warmer temperatures elicit response from TRPV3 and TRPV4. Noxious heat or painful temperatures correlate with TRPM8 and TRPV1 activity (reviewed in 2). TRPV3 is found in association with TRPV1 (VR1) and is thought to modulate activity of this noxious heat-responsive protein (3). Increased TRPV1 and TRPV3 protein expression is correlated with nervous injury, while reduced expression of both may be seen in cases of diabetic skin neuropathy (2). Recent evidence implicates TRPV3 in pruritic dermatitis, or itching associated with eczema and related skin disorders (4).

Background References

1. Xu, H. et al. (2002) *Nature* 418, 181-6.
2. Facer, P. et al. (2007) *BMC Neurol* 7, 11.
3. Smith, G.D. et al. (2002) *Nature* 418, 186-90.
4. Steinhoff, M. and Bíró, T. (2009) *J Invest Dermatol* 129, 531-5.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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