

Product datasheet for **TA328742**

Trpv4 Rabbit Polyclonal Antibody

Product data:

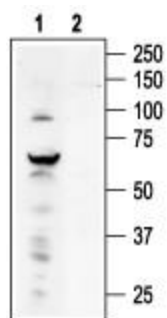
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3,000; FC: 1:50-1:600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CDGHQQGYAPKWRAEDAPL, corresponding to amino acid residues 853-871 of rat TRPV4. Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transient receptor potential cation channel, subfamily V, member 4
Database Link:	NP_076460 Entrez Gene 59341 Human Entrez Gene 63873 Mouse Entrez Gene 66026 Rat Q9ERZ8
Background:	TRP channels are a large family (about 28 genes) of plasma membrane, non-selective cationic channels that are either specifically or ubiquitously expressed in excitable and non-excitable cells. ¹ According to IUPHAR the TRP family comprises of three main subfamilies on the basis of sequence homology; TRPC, TRPM and TRPV (to date, three extra subfamilies are considered to belong to the TRP family; the TRPA, TRPML, and TRPP). The TRPV subfamily consists of six members, TRPV1-6. TRPV4 (also named OTRPC4) is activated under hypotonic conditions and serves as an osmoreceptor. TRPV4 is expressed in brain, liver, kidney, heart, testis and salivary gland.



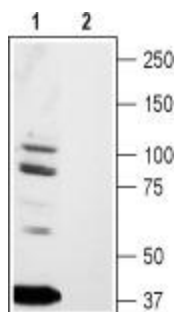
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Synonyms: OTRPC4; TRP12; VR-OAC; VRL-2; VRL2; VROAC

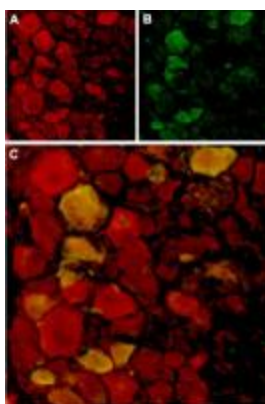
Product images:



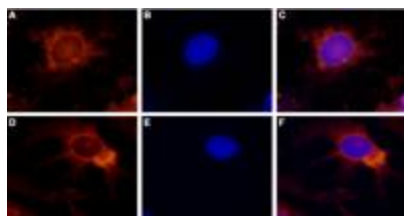
Western blot analysis of ND7/23 cell line lysate: 1. Anti-TRPV4 antibody, (1:200). 2. Anti-TRPV4 antibody, preincubated with the control peptide antigen.



Western blot analysis of rat brain lysates: 1. Anti-TRPV4 antibody, (1:200). 2. Anti-TRPV4 antibody, preincubated with the control peptide antigen.



Expression of TRPV4 in rat DRG. Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-TRPV4 antibody. A. TRPV4 (red) in DRG neurons. B. Staining with mouse anti-Parvalbumin (green) in the same DRG section. C. Confocal merge of TRPV4 and Parvalbumin demonstrates colocalization.



Expression of TRPV4 in rat DRG primary culture. Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat dorsal root ganglion (DRG) primary culture. A, D. Staining using Anti-TRPV4 antibody, (1:500), followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B, E. Nuclear staining of cells using the cell-permeable dye Hoechst 33342. C. Merged image of panels A and B. F. Merged image of panels D and E.