

Product datasheet for **TA328739**

Trpv1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)NSLPMESTPHK*SRGS, corresponding to amino acid residues 605-619 of rat TRPV1 with replacement of cysteine 616 (C616) with serine (*S). 3rd extracellular loop.
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% NaN3.
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 1
Database Link:	NP 114188 Entrez Gene 83810 Rat O35433



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Background:

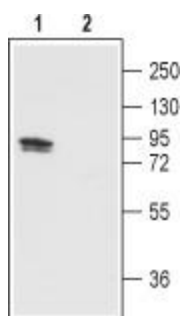
TRP channels are a large family (about 28 genes) of plasma membrane, non-selective cationic channels that are either specifically or ubiquitously expressed in excitable and non-excitable cells. According to IUPHAR the TRP family comprises of three main subfamilies on the basis of sequence homology; TRPC, 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. TRPV1 channel has many activators among them heat, protons, vanilloids like capsaicin, reiniferatoxin (RTX), and lipids. This channel is associated with tissue injury and inflammation. TRPV1 is expressed predominantly in nociceptors and in sensory neurons. Recent studies demonstrated involvement of TRPV1 in apoptosis where inhibition of the receptor prevented apoptosis.

Synonyms:

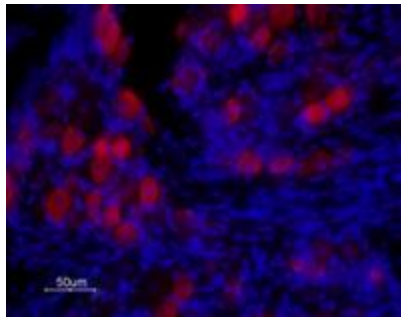
DKFZp434K0220; OTRPC1; VR1

Note:

This antibody was tested in live cell imaging. Please see IF/ICC data for detail.

Product images:


Western blot analysis of TRPV1 in rat DRG: 1. Anti-Rat TRPV1 (extracellular) antibody, (1:200). 2. Anti-Rat TRPV1 (extracellular) antibody, preincubated with the control peptide antigen.



Expression of TRPV1 in rat DRG. Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-Rat TRPV1 (extracellular) antibody, (1:100) followed by goat anti-rabbit-ATTO-594 secondary antibody (red). TRPV1 is expressed in medium and small DRG neurons. Hoechst 33342 is used as the counterstain (blue).