

Product datasheet for **TA328645**

TRPV6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)NRGLEDGESWEYQI, corresponding to amino acid residues 712-725 of human TRPV6.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 6
Database Link:	NP_061116 Entrez Gene 64177 Mouse Entrez Gene 114246 Rat Entrez Gene 55503 Human Q9H1D0

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Background:

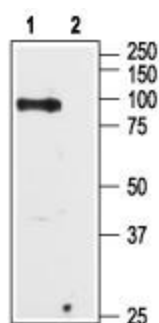
TRP channels are a large family (about 28 genes) of plasma membrane, non-selective cationic channels that are either specifically or ubiquitously expressed in excitable and non-excitable cells. According to IUPHAR the TRP family comprises of three main subfamilies on the basis of sequence homology; TRPC, 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. TRPV6 (CaT1) and TRPV5 (ECaC) are unique members of the TRP family. Both are epithelial calcium channels, form constitutively open channels, share high degree of homology (about 66%) with differences in the N and C-terminus. TRPV6 and TRPV5 are expressed in a 1,25-dihydroxyvitamin D3 dependent manner. In contrast to other members of the TRP family, TRPV6 and TRPV5 are highly Ca²⁺ selective and are expressed in Ca²⁺ transporting epithelia where they are assumed to have an important role in Ca²⁺ reabsorption. TRPV6 is highly expressed in the placenta, small intestine and kidney. While not being expressed in benign prostate tissue, TRPV6 was found to be upregulated in prostate cancer tissue and correlation between expression and tumor grade was shown. Finally, TRPV6 was suggested as prognostic marker and as a promising candidate for therapeutic strategies.

Synonyms:

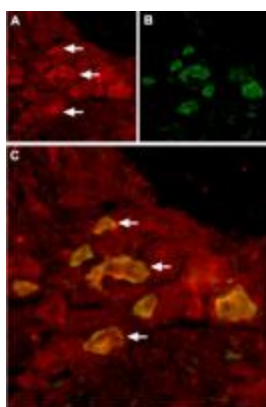
ABP; CAT1; CATL; ECAC2; HSA277909; LP6728; ZF; ZFAB

Protein Families:

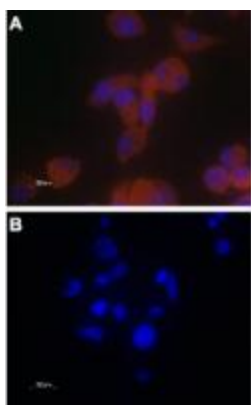
Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Product images:


Western blot analysis of PC-3 cell lysate: 1. Anti-TRPV6 antibody, (1:200). 2. Anti-TRPV6 antibody, preincubated with the control peptide antigen.



Expression of TRPV6 in rat DRG. Immunohistochemical staining of rat dorsal root ganglion (DRG) using Anti-TRPV6 antibody, (1:100). A. TRPV6 channel (red) in DRG neurons. B. Staining with mouse anti-Parvalbumin (green) in the same DRG section. C. Confocal merge of TRPV6 and Parvalbumin demonstrates colocalization (arrows).



Expression of TRPV6 in PC-3 cells
Immunocytochemical staining of paraformaldehyde-fixed PC-3 cells with Anti-TRPV6 antibody, (1:100) followed by goat anti-rabbit-AlexaFluor-555 secondary antibody (A) or with a mixture of Anti-TRPV6 and TRPV6 peptide antigen (1:20) (B). Hoechst 33342 is used as the counterstain (blue).