

Product datasheet for TA328743

TRPV5 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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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)GLNLSEGDGEEVYHF, corresponding to amino acid residues 715-729 of human TRPV5. 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% 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 5
Database Link:	<u>NP_062815</u> <u>Entrez Gene 116469 RatEntrez Gene 194352 MouseEntrez Gene 56302 Human</u> <u>Q9NQA5</u>



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GRIGENE TRPV5 Rabbit Polyclonal Antibody – TA328743

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. TRPV5 (ECaC) and TRPV6 (CaT1) are unique members of the TRP family.
Both are epithelial Ca2+ 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-dIHCydroxyvitamin D3 dependent manner. In contrast to other members
of the TRP family, TRPV5 and TRPV6 are highly Ca2+ selective and are expressed in Ca2+
transporting epithelia where they are assumed to have an important role in Ca2+
reabsorption. TRPV5 is preferentially expressed in kidney.

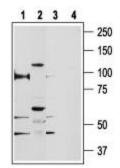
Synonyms: CAT2; ECAC1; OTRPC3

Protein Families:

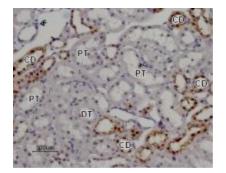
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Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Product images:



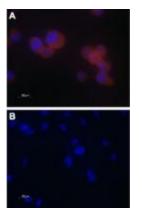
Western blot analysis of rat kidney (lanes 1 and 3) and PC3 cell line (lanes 2 and 4) lysates: 1, 2. Anti-TRPV5 antibody, (1:200). 3, 4. Anti-TRPV5 antibody, preincubated with the control peptide antigen.



Expression of TRPV5 in rat kidney. Immunohistochemical staining of rat kidney paraffin embedded section using Anti-TRPV5 antibody, (1:100). TRPV5 is expressed in collecting ducts (CD) in the renal cortex. Note that both proximal tubules (PT) and distal tubules (DT) are negative. Hematoxilin is used as the counterstain.

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Expression of TRPV5 in PC3 cells. Immunocytochemical staining of paraformaldehyde-fixed PC-3 cells with Anti-TRPV5 antibody, (1:100), followed by goat antirabbit-AlexaFluor-555 secondary antibody (A). B. Same as in (A) but pre-treated with TRPV5 peptide antigen (1:20). Hoechst 33342 is used as the counterstain (blue).

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