

## Product datasheet for **TA328641**

### TRPC5 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:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)HKWGDGQEEQVTTRL,Å corresponding to amino acid residues 959-973 of human TRPC5. 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 <sub>3</sub> .
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 C member 5
Database Link:	<a href="#">NP_036603</a> <a href="#">Entrez Gene 22067 Mouse</a> <a href="#">Entrez Gene 140933 Rat</a> <a href="#">Entrez Gene 7224 Human</a> <a href="#">Q9UL62</a>



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**Background:**

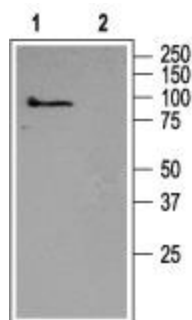
The Transient Receptor Potential (TRP) superfamily is one of the largest ion channel families and consists of diverse groups of proteins. In mammals about 28 genes encode the TRP ion channel subunits. The mammalian TRP superfamily comprises six subfamilies known as the TRPC (canonical), TRPV (vanilloid), TRPM (melastatin), TRPML (mucolipins), TRPP (polycystin) and the TRPA (ANKTM1) ion channels. The TRPC subfamily consists of seven proteins named TRPC1 to 7 which can be further divided into four subgroups based on their sequence homology and functional similarities: 1) TRPC1 2) TRPC4 and TRPC5 3) TRPC3, TRPC6, TRPC7 4) TRPC2. They are highly expressed in the central nervous system and to a lesser extent in peripheral tissues. TRPC5 channels are assumed to form components of store operated channels in some cell types such as salivary gland cells, endothelial cells and vascular smooth muscle cells, and can be activated either by calcium store depletion or by GPCR stimulation pathways.

**Synonyms:**

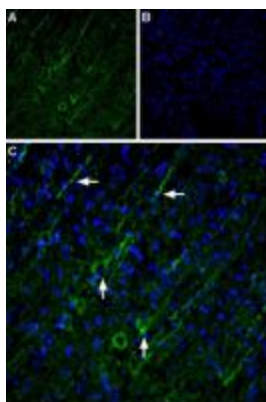
PPP1R159; TRP5

**Protein Families:**

Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

**Product images:**

Western blot analysis of rat brain membranes: 1. Anti-TRPC5 antibody, (1:200). 2. Anti-TRPC5 antibody, preincubated with the control peptide antigen.



Expression of TRPC5 in rat cortex. Immunohistochemical staining of rat cortex using Anti-TRPC5 antibody. A. TRPC5 immunoreactivity (green) appears in pyramidal shaped neuronal soma (vertical arrows) and apical dendrites (horizontal arrows). B. Nuclear staining using DAPI as the counterstain (blue). C. Merged image of A and B.