

Product datasheet for **TA328771**

Trpc6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:200-1:2000; FC: 1:50-1:600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)DNVKYYNLARIKWD, corresponding to amino acid residues 573-586 of rat TRPC6. 2nd 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% 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 C, member 6
Database Link:	NP_038866 Entrez Gene 7225 Human Entrez Gene 89823 Rat Entrez Gene 22068 Mouse Q61143



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Background:

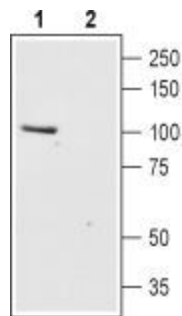
The Transient Receptor Potential (TRP) superfamily is one of the largest ion channel families and consists of diverse groups of proteins. In mammals, about 28 genes encode the TRP ion channel subunits. The mammalian TRP superfamily comprises six subfamilies known as the TRPC (canonical), TRPV (vanilloid), 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. the TRPC1 2. TRPC4 and TRPC5 3. TRPC3, TRPC6, TRPC7 4. TRPC2,5. They are highly expressed in the central nervous system and to a lesser extent in peripheral tissues. TRPC6 can form heterotetramers with TRPC3 and TRPC7. It is primarily expressed in brain, lung and muscle. High levels of expression of the channel were also found in human platelets. Recently it was reported that TRPC6 is also expressed in the kidney where a mutated channel has been implicated in kidney failure disease.

Synonyms:

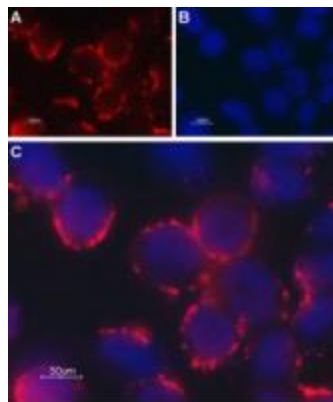
FLJ11098; FLJ14863; FSGS2; TRP6

Note:

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

Product images:


Western blot analysis of rat brain lysates: 1. Anti-TRPC6 (extracellular) antibody, (1:200). 2. Anti-TRPC6 (extracellular) antibody, preincubated with the control peptide antigen.



Expression of TRPC6 in rat PC12 cells. Immunocytochemical staining of intact living PC12 cells. A. Extracellular staining of cells with Anti-TRPC6 (extracellular) antibody, (1:50), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody. B. Nuclear staining with DAPI as the counterstain. C. Merged images of A and B.