

Product datasheet for TA328767

Froduct datasireet for TA52070

Cacng5 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)SESTVNVLKMIRS, corresponding to amino acid residues 87-99 of rat Cav?5. 1st

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: calcium voltage-gated channel auxiliary subunit gamma 5

Database Link: NP 542424

Entrez Gene 27091 HumanEntrez Gene 140723 MouseEntrez Gene 140726 Rat

Q8VHW8



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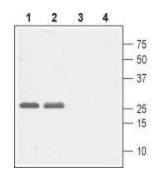
Background:

Voltage-gated Ca2+ (CaV) channels are ubiquitously expressed and function as Ca2+ conducting pores in the plasma membrane. On the basis of their voltage activation properties, the voltage-gated Ca2+ channels can be further divided into two broad groups: the low (T-type) and high (L, N, P, Q and R-type) threshold-activated channels. CaV channels are heteromultimers composed of four independently encoded proteins, the pore-forming a1 subunit, which triggers Ca2+ flow across the membrane, and the auxiliary subunits a2d, ?, and Ã?.CaV? subunits inhibit CaV channel activity and modulate its activation and inactivation kinetics. CaV? subunits have little effect on CaV channel trafficking. The? subunit is an integral membrane protein. The ? subunit family consists of at least 8 members, which share a number of common structural features. Each member is predicted to possess four transmembrane domains, with intracellular N- and C-termini. The first extracellular loop contains a highly conserved N-glycosylation site and a pair of conserved cysteine residues. The CaV?5 subunit is highly expressed in the liver, kidney, heart, lung, skeletal muscles, and, with a lower abundance, in testes5. The close association of epilepsy and ataxia with mutations in other neuronal voltage-dependent Ca2+ channels suggests these are potential candidate phenotypes for defects in the CaV?5 (CACNG5) gene.

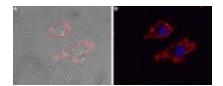
Synonyms: MGC126656; MGC126682

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

Product images:



Western blot analysis of rat brain (lanes 1 and 3) and mouse brain (lanes 2 and 4) lysates: 1, 2. Anti-CaV?5 (extracellular) antibody, (1:1000). 3, 4. Anti-CaV?5 (extracellular) antibody preincubated with the control peptide antigen.



Expression of CaV?5 in living rat PC12 cells. Immunocytochemical staining of intact living rat PC12 cells using Anti-CaV?5 (extracellular) antibody, (1:25) followed by goat anti-rabbit-AlexaFluor-594 secondary antibody. A. Extracellular staining (red) merged with live view of the cells. B. Extracellular staining merged with nuclear staining using DAPI as the counterstain (blue).