

Product datasheet for **TA328763**

Cacnb2 Rabbit Polyclonal Antibody

Product data:

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|------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB: 1:200-1:2000 |
| Reactivity: | Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Peptide (C)HEHVDRYVPHREHNHRE, corresponding to amino acid residues 571-587 of rat Cav β 2. 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: | calcium voltage-gated channel auxiliary subunit beta 2 |
| Database Link: | NP_446303 Entrez Gene 12296 Mouse Entrez Gene 116600 Rat Q8VGC3 |



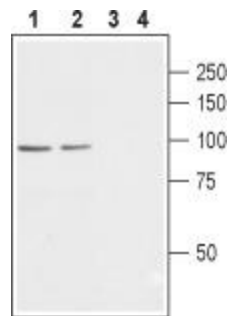
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Background:

Voltage-dependent Ca²⁺ channels are a family of membrane proteins that allow cells to couple electrical activity to intracellular Ca²⁺ signaling. Voltage-gated Ca²⁺ channels are classified as T, L, N, P, Q and R, and are distinguished by their sensitivity to pharmacological blocks, single-channel conductance kinetics, and voltage-dependence. On the basis of their voltage activation properties, voltage-gated Ca²⁺ subtypes can be further divided into two broad groups: the low (T-type) and high (L, N, P, Q and R-type) threshold-activated channels. The activity of the channel pore is modulated by 4 tightly-coupled subunits: an intracellular β subunit; a transmembrane α subunit; and a disulphide-linked complex of α_2 and δ subunits. There are four distinct β subunits: β_1 , β_2 , β_3 and β_4 . There are 4 splice variants of the β_2 subunit: β_2a , β_2b , β_2c and β_2d . β_2a and β_2b are expressed in heart, aorta and brain, and are 606- and 632-residue proteins, respectively. β_2c and β_2d (655 and 604 residues, respectively) are expressed in brain, and recent studies show β_2c to be also expressed in heart. All splice variants differ in their N-terminal regions.

Synonyms:

CAB2; CACNLB2; CAVB2; FLJ23743; MYSB

Product images:


Western blot analysis of rat brain (lanes 1 and 3) and mouse brain (lanes 2 and 4) membranes: 1, 2. Anti-CaV β 2 antibody, (1:800). 3, 4. Anti-CaV β 2 antibody preincubated with the control peptide antigen.