

Product datasheet for **TA328765**

Cacng3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)RSHSELLKKSTFAR, corresponding to amino acid residues 210-223 of rat CaV β 3. 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 gamma 3
Database Link:	NP_542422 Entrez Gene 10368 Human Entrez Gene 54376 Mouse Entrez Gene 140724 Rat Q8VHX0



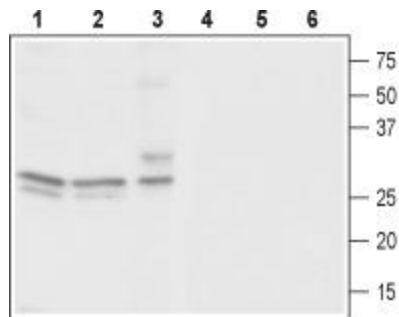
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Background:

Voltage-gated Ca²⁺ (CaV) channels are ubiquitously expressed and function as Ca²⁺ conducting pores in the plasma membrane¹. Based on their electrophysiological and pharmacological properties, Ca²⁺ channels have traditionally been classified into L, T, N, P/Q, and R types. L-type calcium channels are heteromultimers composed of four independently encoded proteins, the pore-forming α_1 subunit, which triggers Ca²⁺ flow across the membrane, and the subunits α_2 , β , and γ . The β subunit is an integral membrane protein. The β 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 residues⁵. CaV β subunits inhibit CaV channel activity and modulate its activation and inactivation kinetics. CaV β subunits have little effect on CaV channel trafficking. CaV β 3 mRNAs are only detectable in mouse brain.

Synonyms:

Cacng2

Product images:

Western blot analysis of rat brain (lanes 1 and 4), mouse brain (lanes 2 and 5) and human neuroblastoma (SH-SY5Y) cells (lanes 3 and 6): 1-3. Anti-CaV β 3 antibody, (1:1000). 4-6. Anti-CaV β 3 antibody, preincubated with the control peptide antigen.