

Product datasheet for **TA328766**

Cacng4 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)EKNKELRFKTKRE, corresponding to amino acid residues 208-220 of rat Cav γ 4. 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 4
Database Link:	NP_542423 Entrez Gene 27092 Human Entrez Gene 54377 Mouse Entrez Gene 140725 Rat Q8VHW9



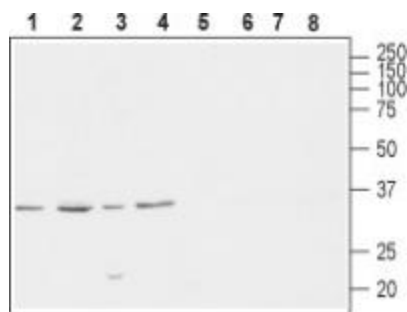
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Background:

Voltage dependent Ca²⁺ channels (CaV channels) are pivotal players in many physiological roles such as secretion, contraction migration and excitation. They are composed of several subunits; α_1 , α_2 and β . CaV channels were originally divided into six physiological types: L, N, P, Q, R, and T type. L-type calcium channels are composed of five subunits. Cav β_4 represents one of these subunits, and is one of several β subunit proteins. It is an integral membrane protein that is thought to stabilize the Ca²⁺ channel in an inactive (closed) state. The encoding gene is a member of the neuronal Ca²⁺ channel β subunit gene subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two similar gamma subunit-encoding genes. Cav β_4 , along with Cav β_2 , Cav β_3 and Cav β_8 have been associated with AMPA receptors and have been shown to modulate the trafficking of receptors to the plasma membrane as well as electrophysiological key properties.

Synonyms:

MGC11138; MGC24983

Product images:

Western blot analysis of rat brain (lanes 1 and 5), mouse brain (lanes 2 and 6), SH-SY5Y (lanes 3 and 7) and PC-12 (lanes 4 and 8) lysates: 1-4. Anti-Cav β_4 antibody. 5-8. Anti-Cav β_4 antibody, preincubated with the control peptide antigen.