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Product datasheet for TA328728

Cacna1i Rabbit Polyclonal Antibody

Product data:

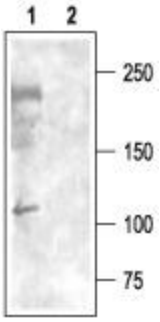
Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CNGRMPNIAKDVFTK, corresponding to amino acid residues 1053-1067 of rat Cav3.3. Intracellular, between domains II and III.
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 subunit alpha1 I
Database Link:	NP_064469 Entrez Gene 8911 HumanEntrez Gene 239556 MouseEntrez Gene 56827 Rat Q9Z0Y8

View online »

Background: T-type Ca2+ channels play an important role in many cellular processes such as hormone secretion, neurotransmitter release and cell differentiation.T-type channels are also known to participate in the pacemaker activities of heart and neurons including thalamic neurons.1 Three genes encoding T-type Ca2+ channels have been cloned and designated as CaV3.1 (a1G), CaV3.2 (a1H) and CaV3.3 (a1I).While CaV3.1 (a1G) and CaV3.2 (a1H) are widely expressed in various tissues, CaV3.3 (a1I) is primarily expressed in the central nervous system, where high expression was described in thalamic neurons.The Ca2+ current generated by the CaV3.3 channel displays much slower activation and inactivation compared to the currents produced by CaV3.1 and CaV3.2, suggesting it might play a different role in neuronal excitability.

Synonyms: Ca(V)3.3

Product images:



Western blot analysis of rat brain membranes: 1. Anti-Cav3.3 antibody, (1:200). 2. Anti-Cav3.3 antibody, preincubated with the control peptide antigen.