

Product datasheet for **TA328723**

Cacna1c Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3,000; FC: 1:50-1:600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)TTKINMDDLQPSNEDKS, corresponding to amino acid residues 848-865 of rat Cav1.2. Intracellular loop 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% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized peptide.
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 C
Database Link:	NP_036649 Entrez Gene 775 Human Entrez Gene 12288 Mouse Entrez Gene 24239 Rat P22002



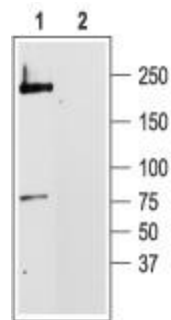
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Background:

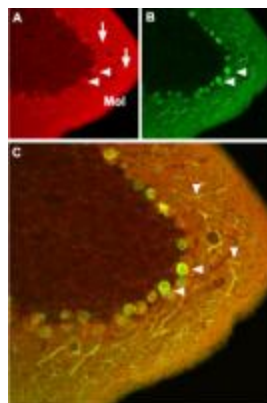
All L-type calcium channels are encoded by one of the CaV1 channel genes. These channels play a major role as a Ca²⁺ entry pathway in skeletal cardiac and smooth muscles as well as in neurons, endocrine cells and possibly in non-excitabile cells such as hematopoietic and epithelial cells. All CaV1 channels are influenced by dihydropyridines (DHP) and are also referred to as DHP receptor. While the CaV1.1 and CaV1.4 isoforms are expressed in restricted tissues (skeletal muscle and retina, respectively), the expression of CaV1.2 is ubiquitous and CaV1.3 channels are found in heart, brain and pancreas. Several peptidyl toxins are described that are specific L-type channels blockers, but so far no selective blocker for one of the CaV1 isoforms have been described. These include the Mamba toxins Calcicludine, Calciseptine and FS-2 .

Synonyms:

CACH2; CACN2; CACNL1A1; CaV1.2; CCHL1A1; MGC120730; OTTHUMP00000196730; OTTHUMP00000196731; OTTHUMP00000196732; OTTHUMP00000196733; OTTHUMP00000196734; OTTHUMP00000196735; OTTHUMP00000196736; OTTHUMP00000196737; OTTHUMP00000196739; OTTHUMP00000196744; OTTHUMP00000196746; OTTHUMP00000196747; OTTHUMP00000196748; OTTHUMP00000196749; OTTHUMP00000196751; TS

Product images:


Western blot analysis of rat brain membranes: 1. Anti-CaV1.2 antibody, (1:200). 2. Anti-CaV1.2 antibody, preincubated with the control peptide antigen.



Expression of Cav1.2 in mouse cerebellum. Immunohistochemical staining of mouse cerebellum with Anti-Cav1.2 antibody. A. Cav1.2 (red) appears in Purkinje cells (horizontal arrows) and is distributed diffusely in the molecular layer (Mol) including in Purkinje dendrites (vertical arrows). B. Staining of Purkinje nerve cells with mouse anti-Calbindin 28K (green) demonstrates the location of dendrites in the molecular layer. C. Merged image of panels A and B.