

## Product datasheet for **TA328736**

### Cacna1g Rabbit Polyclonal Antibody

#### Product data:

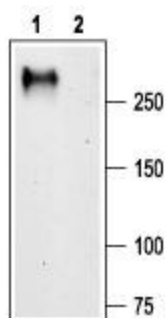
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide MDEEEDGAGAEESGQPRSFTQL(C), corresponding to amino acid residues 1-22 of rat CaV3.1 (Accession O54898). Intracellular, N-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% 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 G
Database Link:	<a href="#">NP_113789</a> <a href="#">Entrez Gene 8913 Human</a> <a href="#">Entrez Gene 12291 Mouse</a> <a href="#">Entrez Gene 29717 Rat</a>
Background:	Voltage-dependent Ca <sup>2+</sup> channels provide a pathway for rapid influx of Ca <sup>2+</sup> into cells, which plays a crucial role in both electrical and metabolic signaling. T-type currents are transduced via channel proteins encoded by three genes that compose a subfamily within the Cav channel family. The activity of T-type channels contributes to several known physiological and pathophysiological phenomena including burst firing in neurons, pace making activity in the heart and secretion from endocrine tissues. There are three cloned T-type channel isoforms. CaV3.1 (a1G) and CaV3.2 (a1H) are widely distributed whereas the expression of CaV3.3 (a1I) is restricted to the central nervous system. CaV3.1 and CaV3.2 are also expressed in the kidney, but little is known about their physiological role there.



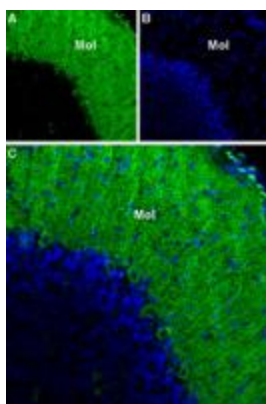
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Synonyms: Ca(V)T.1; Cav3.1; MGC117234; NBR13

### Product images:



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



Expression of CaV3.1 in rat cerebellum. Immunohistochemical staining of rat cerebellum using Anti-CaV3.1 antibody. A. CaV3.1 immunoreactivity (green) appears in the molecular layer. B. Nuclear staining using DAPI as the counterstain (blue). C. Merged images A and B. Mol = molecular layer.