

Product datasheet for TA328725

Cacna1d Rabbit Polyclonal Antibody

Product data:

Clonality:

Product Type: Primary Antibodies

IHC, WB **Applications:**

Recommended Dilution: WB: 1:200-1:2000: IHC: 1:100-1:3000

Polyclonal

Reactivity: Human, Mouse, Rat

Host: Rabbit

Peptide (C)DNKVTIDDYQEEAEDKD, corresponding to amino acid residues 859-875 of rat Immunogen:

Cav1.3. 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% NaN3.

Add 50 ul double distilled water (DDW) to the lyophilized powder. **Reconstitution Method:**

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 D

Database Link: NP 058994

Entrez Gene 776 HumanEntrez Gene 12289 MouseEntrez Gene 29716 Rat

P27732



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



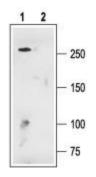
Background:

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-excitable cells such as hematopoetic and epithelial cells. All CaV1 channels are influenced by dlHCydropyridines (DHP) and are also referred to as DHP receptors. 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. The CaV1.3 channels are also expressed, as are other L-type channels, in neurons and neuroendocrine cells. However, accumulated data has shown the expression of CaV1.3 in heart and suggests that it plays a major role in the generation of cardiac pacemaker activity. Several peptidyl toxins have been described that are specific L-type channel blockers. These include the Mamba toxins Calcicludine, Calciseptine and FS-2. So far no selective blocker for one of the CaV1 isoforms has been described.

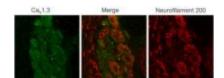
Synonyms:

CACH3; CACN4; CACNL1A2; Cav1.3; CCHL1A2

Product images:



Western blot analysis of rat brain membranes: 1. Anti-Cav1.3 antibody, (1:200). 2. Anti-Cav1.3 antibody, preincubated with the control peptide antigen.



Expression of Cav1.3 in rat DRG. Immunohistochemical staining of adult rat dorsal root ganglion (DRG) with Anti-Cav1.3 antibody. Staining appears in clusters of cells (green) but not in axons. Staining of neurofilament 200 demonstrates partial overlap with Cav1.3 in neuronal staining but not in axons (red).