

# Resource Summary Report

Generated by [dkNET](#) on Aug 25, 2026

## Anti-Ca<sup>2+</sup> channel | P/Q-type, alpha-1A subunit

RRID:AB\_2619842

Type: Antibody

### Proper Citation

Synaptic Systems Cat# 152 205, RRID:AB\_2619842

### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_2619842](http://antibodyregistry.org/AB_2619842)

**Proper Citation:** Synaptic Systems Cat# 152 205, RRID:AB\_2619842

**Target Antigen:** Ca<sup>2+</sup> channel (P/Q-type, alpha-1A subunit)

**Host Organism:** guinea pig

**Clonality:** polyclonal

**Comments:** Applications: WB,IHC,EM. KO validated

**Antibody Name:** Anti-Ca<sup>2+</sup> channel | P/Q-type, alpha-1A subunit

**Description:** This polyclonal targets Ca<sup>2+</sup> channel (P/Q-type, alpha-1A subunit)

**Target Organism:** Rat, Mouse

**Antibody ID:** AB\_2619842

**Vendor:** Synaptic Systems

**Catalog Number:** 152 205

**Record Creation Time:** 20250820T042053+0000

**Record Last Update:** 20250820T184407+0000

### Ratings and Alerts

No rating or validation information has been found for Anti-Ca<sup>2+</sup> channel | P/Q-type, alpha-1A subunit.

No alerts have been found for Anti-Ca<sup>2+</sup> channel | P/Q-type, alpha-1A subunit.

## Data and Source Information

**Source:** [Antibody Registry](#)

## Usage and Citation Metrics

We found 15 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [dkNET](#) .

Milanick W, et al. (2025) Presynaptic  $\alpha$ 2 $\delta$ s specify synaptic gain, not synaptogenesis, in the mammalian brain. *Neuron*, 113(12), 1886.

Schroeder ME, et al. (2025) A transcriptomic atlas of astrocyte heterogeneity across space and time in mouse and marmoset. *Neuron*, 113(23), 3942.

Chen JJ, et al. (2024) Developmental transformation of Ca<sup>2+</sup> channel-vesicle nanotopography at a central GABAergic synapse. *Neuron*, 112(5), 755.

Kim O, et al. (2024) Presynaptic cAMP-PKA-mediated potentiation induces reconfiguration of synaptic vesicle pools and channel-vesicle coupling at hippocampal mossy fiber boutons. *PLoS biology*, 22(11), e3002879.

Uggerud IM, et al. (2023) Development and Optimization of a Multilayer Rat Purkinje Neuron Culture. *Cerebellum* (London, England).

Eguchi K, et al. (2023) Nanoscale Phosphoinositide Distribution on Cell Membranes of Mouse Cerebellar Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(23), 4197.

Aldahabi M, et al. (2022) Different priming states of synaptic vesicles underlie distinct release probabilities at hippocampal excitatory synapses. *Neuron*, 110(24), 4144.

Karlocai MR, et al. (2021) Variability in the Munc13-1 content of excitatory release sites. *eLife*, 10.

Holderith N, et al. (2021) Selective Enrichment of Munc13-2 in Presynaptic Active Zones of Hippocampal Pyramidal Cells That Innervate mGluR1<sup>+</sup> Expressing Interneurons. *Frontiers in synaptic neuroscience*, 13, 773209.

Holderith N, et al. (2020) A High-Resolution Method for Quantitative Molecular Analysis of Functionally Characterized Individual Synapses. *Cell reports*, 32(4), 107968.

Radulovic T, et al. (2020) Presynaptic development is controlled by the core active zone proteins CAST/ELKS. *The Journal of physiology*, 598(12), 2431.

Lübbert M, et al. (2019) CaV2.1  $\alpha$ 1 Subunit Expression Regulates Presynaptic CaV2.1 Abundance and Synaptic Strength at a Central Synapse. *Neuron*, 101(2), 260.

Härönen H, et al. (2019) Correct expression and localization of collagen XIII are crucial for the normal formation and function of the neuromuscular system. *The European journal of*

neuroscience, 49(11), 1491.

Dong W, et al. (2018) CAST/ELKS Proteins Control Voltage-Gated Ca<sup>2+</sup> Channel Density and Synaptic Release Probability at a Mammalian Central Synapse. *Cell reports*, 24(2), 284.

Kerti-Szigeti K, et al. (2016) Similar GABAA receptor subunit composition in somatic and axon initial segment synapses of hippocampal pyramidal cells. *eLife*, 5.