

Resource Summary Report

Generated by [NIF](#) on Sep 8, 2026

Anti-Ca²⁺ 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

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Target Antigen: Ca²⁺ channel (P/Q-type, alpha-1A subunit)

Host Organism: guinea pig

Clonality: polyclonal

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

Antibody Name: Anti-Ca²⁺ channel | P/Q-type, alpha-1A subunit

Description: This polyclonal targets Ca²⁺ 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: 20231110T034858+0000

Record Last Update: 20260901T031136+0000

Ratings and Alerts

No rating or validation information has been found for Anti-Ca²⁺ channel | P/Q-type, alpha-1A subunit.

No alerts have been found for Anti-Ca²⁺ 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 [NIF](#) .

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

Milanick W, et al. (2025) Presynaptic Ca^{2+} s specify synaptic gain, not synaptogenesis, in the mammalian brain. *Neuron*, 113(12), 1886.

Chen JJ, et al. (2024) Developmental transformation of Ca^{2+} 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⁺ Expressing Interneurons. *Frontiers in synaptic neuroscience*, 13, 773209.

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

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

Lübbert M, et al. (2019) $\text{Ca}_v2.1$ α_1 Subunit Expression Regulates Presynaptic $\text{Ca}_v2.1$ 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 Ca²⁺ 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.