

Resource Summary Report

Generated by [RRID](#) on Sep 7, 2026

Anti-Choline Acetyltransferase antibody [EPR16590]

RRID:AB_2721842

Type: Antibody

Proper Citation

Abcam Cat# ab178850, RRID:AB_2721842

Antibody Information

URL: http://antibodyregistry.org/AB_2721842

Proper Citation: Abcam Cat# ab178850, RRID:AB_2721842

Target Antigen: Anti-Choline Acetyltransferase

Host Organism: rabbit

Clonality: monoclonal

Comments: Suitable for: WB, IHC-P

Antibody Name: Anti-Choline Acetyltransferase antibody [EPR16590]

Description: This monoclonal targets Anti-Choline Acetyltransferase

Target Organism: guinea pig, rat, mouse, rabbit

Clone ID: EPR16590

Antibody ID: AB_2721842

Vendor: Abcam

Catalog Number: ab178850

Record Creation Time: 20231110T033726+0000

Record Last Update: 20260901T032903+0000

Ratings and Alerts

No rating or validation information has been found for Anti-Choline Acetyltransferase antibody [EPR16590].

No alerts have been found for Anti-Choline Acetyltransferase antibody [EPR16590].

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Ishida-Takaku T, et al. (2026) Alzheimer's disease-related mutations in APP influence colorectal tumor formation in a sex-dependent manner. *iScience*, 29(7), 116645.

Oka N, et al. (2026) Donepezil ameliorates fatigue and depression in PASC patients with HHV-6B SITH-1-induced acetylcholine deficiency. *Frontiers in pharmacology*, 17, 1807203.

Hwang SJ, et al. (2025) WDJ-S4, a standardized herbal formula, promotes gastrointestinal motility via modulation of the acetylcholine pathway in a loperamide-induced functional dyspepsia mice. *Pharmaceutical biology*, 63(1), 218.

Bosquez Huerta NA, et al. (2025) Sex-specific astrocyte regulation of spinal motor circuits by Nkx6.1. *Cell reports*, 44(1), 115121.

Zhong S, et al. (2025) Ultrabright chemical labeling enables rapid neural connectivity profiling in large tissue samples. *Neuron*.

Zhou M, et al. (2025) Ngn2 and Isl1-mediated astrocyte-to-neuron conversion in vivo promotes functional recovery after spinal cord injury. *Cell reports. Medicine*, 6(12), 102462.

Meher MM, et al. (2025) Neurochemical heterogeneity of ChAT-immunoreactive neurons in the basal forebrain cholinergic nuclei and striatum in reference to CGRP, CCK, and calcium-binding proteins. *Acta histochemica*, 127(4), 152291.

Mu J, et al. (2024) Visualizing Wallerian degeneration in the corticospinal tract after sensorimotor cortex ischemia in mice. *Neural regeneration research*, 19(3), 636.

Guisse AJ, et al. (2024) TDP-43-stratified single-cell proteomics of postmortem human spinal motor neurons reveals protein dynamics in amyotrophic lateral sclerosis. *Cell reports*, 43(1), 113636.

Griffiths JA, et al. (2024) Peripheral neuronal activation shapes the microbiome and alters gut physiology. *Cell reports*, 43(4), 113953.

Bryson JB, et al. (2024) An optogenetic cell therapy to restore control of target muscles in an aggressive mouse model of amyotrophic lateral sclerosis. *eLife*, 12.

Marshall Moscon S, et al. (2024) A common variant in the iron regulatory gene (Hfe) alters the metabolic and transcriptional landscape in brain regions vulnerable to neurodegeneration. *Journal of neurochemistry*, 168(9), 3132.

Islam MN, et al. (2023) Immunohistochemical Distribution and Neurochemical Characterization of Huntingtin-Associated Protein 1 Immunoreactive Neurons in the Adult Mouse Lingual Ganglia. *Brain sciences*, 13(2).

Oka N, et al. (2023) SARS-CoV-2 S1 protein causes brain inflammation by reducing intracerebral acetylcholine production. *iScience*, 26(6), 106954.

Tarif AMM, et al. (2023) Neurochemical phenotypes of huntingtin-associated protein 1 in reference to secretomotor and vasodilator neurons in the submucosal plexuses of rodent small intestine. *Neuroscience research*, 191, 13.

Lang Q, et al. (2023) In vivo imaging of axonal transport in peripheral nerves of rodent forelimbs. *Neuronal signaling*, 7(1), NS20220098.

Lin X, et al. (2023) Synergistic effect of chemogenetic activation of corticospinal motoneurons and physical exercise in promoting functional recovery after spinal cord injury. *Experimental neurology*, 370, 114549.

Collins L, et al. (2023) Cholinergic and noradrenergic axonal activity contains a behavioral-state signal that is coordinated across the dorsal cortex. *eLife*, 12.

Nazari M, et al. (2023) Regional variation in cholinergic terminal activity determines the non-uniform occurrence of cortical slow waves during REM sleep in mice. *Cell reports*, 42(5), 112450.

Islam MN, et al. (2022) Mapping of STB/HAP1 Immunoreactivity in the Mouse Brainstem and its Relationships with Choline Acetyltransferase, with Special Emphasis on Cranial Nerve Motor and Preganglionic Autonomic Nuclei. *Neuroscience*, 499, 40.