Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 13, 2025

Phospho-CaMKII (Thr286) (D21E4) Rabbit mAb

RRID:AB_2713889 Type: Antibody

Proper Citation

(Cell Signaling Technology Cat# 12716, RRID:AB_2713889)

Antibody Information

URL: http://antibodyregistry.org/AB_2713889

Proper Citation: (Cell Signaling Technology Cat# 12716, RRID:AB_2713889)

Target Antigen: CaMKII (Thr286) Phosphate (cross-reacts with identical sites on CaMK family members)

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W

Antibody Name: Phospho-CaMKII (Thr286) (D21E4) Rabbit mAb

Description: This monoclonal targets CaMKII (Thr286) Phosphate (cross-reacts with identical sites on CaMK family members)

Target Organism: rat, mouse, human

Clone ID: D21E4

Antibody ID: AB_2713889

Vendor: Cell Signaling Technology

Catalog Number: 12716

Record Creation Time: 20231110T033814+0000

Record Last Update: 20240725T012237+0000

Ratings and Alerts

No rating or validation information has been found for Phospho-CaMKII (Thr286) (D21E4) Rabbit mAb.

No alerts have been found for Phospho-CaMKII (Thr286) (D21E4) Rabbit mAb.

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 45 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Yao J, et al. (2025) FUBP3 mediates the amyloid-?-induced neuronal NLRP3 expression. Neural regeneration research, 20(7), 2068.

Dai Y, et al. (2024) Thromboxane A2/thromboxane A2 receptor axis facilitates hepatic insulin resistance and steatosis through endoplasmic reticulum stress in non-alcoholic fatty liver disease. British journal of pharmacology, 181(7), 967.

Chopra S, et al. (2024) DEP-1 is a brain insulin receptor phosphatase that prevents the simultaneous activation of counteracting metabolic pathways. Cell reports, 43(12), 114984.

Benedetti L, et al. (2024) Periodic ER-plasma membrane junctions support long-range Ca2+ signal integration in dendrites. Cell.

Zhang J, et al. (2024) Osr2 functions as a biomechanical checkpoint to aggravate CD8+ T cell exhaustion in tumor. Cell, 187(13), 3409.

Ren W, et al. (2024) Sympathetic nerve-enteroendocrine L cell communication modulates GLP-1 release, brain glucose utilization, and cognitive function. Neuron, 112(6), 972.

Le Dréan ME, et al. (2024) The regulation of enteric neuron connectivity by semaphorin 5A is affected by the autism-associated S956G missense mutation. iScience, 27(5), 109638.

Tamura Y, et al. (2024) Monocarboxylate transporter 4 deficiency enhances high-intensity interval training-induced metabolic adaptations in skeletal muscle. The Journal of physiology, 602(7), 1313.

Sun SED, et al. (2024) Synaptic homeostasis transiently leverages Hebbian mechanisms for a multiphasic response to inactivity. Cell reports, 43(4), 113839.

Barone I, et al. (2023) Synaptic BMAL1 phosphorylation controls circadian hippocampal

plasticity. Science advances, 9(43), eadj1010.

Zhai L, et al. (2023) Ruminococcus gnavus plays a pathogenic role in diarrhea-predominant irritable bowel syndrome by increasing serotonin biosynthesis. Cell host & microbe, 31(1), 33.

Aoi W, et al. (2023) Exercise-acclimated microbiota improves skeletal muscle metabolism via circulating bile acid deconjugation. iScience, 26(3), 106251.

Wang Y, et al. (2023) Chronic Neuronal Inactivity Utilizes the mTOR-TFEB Pathway to Drive Transcription-Dependent Autophagy for Homeostatic Up-Scaling. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(15), 2631.

Lin NH, et al. (2023) Neuroprotective Effects of a Multi-Herbal Extract on Axonal and Synaptic Disruption in Vitro and Cognitive Impairment in Vivo. Journal of Alzheimer's disease reports, 7(1), 51.

Socodato R, et al. (2023) Microglial Rac1 is essential for experience-dependent brain plasticity and cognitive performance. Cell reports, 42(12), 113447.

Cai C, et al. (2022) Ras Inhibitor Lonafarnib Rescues Structural and Functional Impairments of Synapses of A?1-42 Mice via ?7nAChR-Dependent BDNF Upregulation. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(31), 6090.

Hossen E, et al. (2022) Rho-Kinase/ROCK Phosphorylates PSD-93 Downstream of NMDARs to Orchestrate Synaptic Plasticity. International journal of molecular sciences, 24(1).

Han JH, et al. (2022) Snail acetylation by autophagy-derived acetyl-coenzyme A promotes invasion and metastasis of KRAS-LKB1 co-mutated lung cancer cells. Cancer communications (London, England), 42(8), 716.

Miyazaki Y, et al. (2022) C-type natriuretic peptide facilitates autonomic Ca2+ entry in growth plate chondrocytes for stimulating bone growth. eLife, 11.

Li Q, et al. (2022) Proteomic-Based Approach Reveals the Involvement of Apolipoprotein A-I in Related Phenotypes of Autism Spectrum Disorder in the BTBR Mouse Model. International journal of molecular sciences, 23(23).