

Resource Summary Report

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

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: 20260218T230517+0000

Record Last Update: 20260828T165840+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 54 mentions in open access literature.

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

Mao Y, et al. (2026) B cell deficiency limits exercise capacity by remodeling liver glutamate metabolism. *Cell*, 189(11), 3254.

Gu Z, et al. (2026) Wntless degradation mediated by CaMKII inhibition drives endoplasmic reticulum stress and apoptosis. *Cell reports*, 45(4), 117256.

Hsiao YW, et al. (2026) Renal denervation in experimental autoimmune myocarditis: association with cardiac function and changes in calcium and MAPK/ERK signaling. *Basic research in cardiology*, 121(4), 739.

Kong CH, et al. (2026) Sinaptic acid balances the excitatory and inhibitory neurotransmitter systems to mitigate post-traumatic stress disorder-like behaviors. *Life sciences*, 388, 124201.

D'Incal CP, et al. (2026) An Adnp frameshift variant disrupts Wnt signalling inducing chromatocytoskeletal defects and autism-related behaviour in male mice. *EBioMedicine*, 128, 106309.

Ba W, et al. (2026) Wake-active brainstem GABA neurons signal sleep pressure by upregulating AMPA receptors to drive recovery sleep. *Current biology : CB*, 36(11), 2823.

Mendez-Lopez M, et al. (2025) Carfilzomib-specific proteasome $\alpha 5/\alpha 2$ inhibition drives cardiotoxicity via remodeling of protein homeostasis and the renin-angiotensin-system. *iScience*, 28(9), 113228.

Shi Y, et al. (2025) Piezo1 senses hyphae and initiates host defense against pathogenic fungi. *Cell reports*, 44(6), 115839.

Chen P, et al. (2025) Pyroptosis of periodontal ligament stem cells aggravates periodontitis via Piezo1 channel. *iScience*, 28(5), 112395.

Michalak A, et al. (2025) NPY Y1 and Y2 receptors in the regulation of mouse recognition and procedural memory: Interplay with cellular signalling, noradrenergic transmission and monoamine concentrations. *British journal of pharmacology*.

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

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.

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

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

Li J, et al. (2024) Lysophosphatidylcholine induced by fat transplantation regulates hyperalgesia by affecting the dysfunction of ACC perineuronal nets. *iScience*, 27(12), 111274.

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.

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.