

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://fdi-lab.sci-crunch.org) on May 2, 2025

Phospho-CaMKII alpha (Thr286) Monoclonal Antibody (22B1)

RRID:AB_325402

Type: Antibody

Proper Citation

(Thermo Fisher Scientific Cat# MA1-047, RRID:AB_325402)

Antibody Information

URL: http://antibodyregistry.org/AB_325402

Proper Citation: (Thermo Fisher Scientific Cat# MA1-047, RRID:AB_325402)

Target Antigen: Phospho-CaMKII alpha (Thr286)

Host Organism: mouse

Clonality: monoclonal

Comments: Applications: Flow (1 µg / 10⁶ cells), ICC/IF (1:100), IHC (Assay-dependent), WB (1:2,000), IP (Assay-dependent), ELISA (Assay-dependent)

Antibody Name: Phospho-CaMKII alpha (Thr286) Monoclonal Antibody (22B1)

Description: This monoclonal targets Phospho-CaMKII alpha (Thr286)

Target Organism: rat, mouse, human

Clone ID: Clone 22B1

Defining Citation:

[PMID:20864528](#), [PMID:26255006](#), [PMID:16307449](#), [PMID:16511602](#), [PMID:15150258](#),
[PMID:16204647](#), [PMID:11549715](#), [PMID:19943853](#), [PMID:20056922](#), [PMID:15016728](#),
[PMID:22072671](#), [PMID:16280604](#), [PMID:10479685](#), [PMID:24844454](#), [PMID:9632393](#),
[PMID:10479686](#), [PMID:16966599](#), [PMID:12019337](#), [PMID:22526240](#), [PMID:18077696](#),
[PMID:15132438](#), [PMID:15714506](#), [PMID:21491429](#), [PMID:20971119](#), [PMID:22694088](#),
[PMID:16530419](#), [PMID:19837142](#), [PMID:15120742](#), [PMID:18649973](#), [PMID:24608696](#),
[PMID:15036583](#), [PMID:26297240](#), [PMID:19840220](#), [PMID:11238881](#), [PMID:15292517](#),
[PMID:8884614](#), [PMID:20572199](#), [PMID:21819992](#), [PMID:22706686](#), [PMID:20942999](#),
[PMID:10087064](#), [PMID:19959778](#), [PMID:15175389](#), [PMID:18386186](#), [PMID:20392935](#),
[PMID:26884398](#), [PMID:16004982](#), [PMID:18769913](#), [PMID:9204925](#), [PMID:23776695](#),
[PMID:20003989](#), [PMID:17552998](#), [PMID:8443414](#), [PMID:12408851](#), [PMID:16897721](#),
[PMID:20877626](#), [PMID:18638553](#), [PMID:22007848](#), [PMID:20089930](#), [PMID:12654339](#)

Antibody ID: AB_325402

Vendor: Thermo Fisher Scientific

Catalog Number: MA1-047

Record Creation Time: 20231110T044900+0000

Record Last Update: 20241115T070430+0000

Ratings and Alerts

No rating or validation information has been found for Phospho-CaMKII alpha (Thr286) Monoclonal Antibody (22B1).

No alerts have been found for Phospho-CaMKII alpha (Thr286) Monoclonal Antibody (22B1).

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Caffino L, et al. (2024) Chronic Lithium Treatment Alters NMDA and AMPA Receptor Synaptic Availability and Dendritic Spine Organization in the Rat Hippocampus. *Current neuropharmacology*, 22(12), 2045.

Lai JD, et al. (2024) KCNJ2 inhibition mitigates mechanical injury in a human brain organoid model of traumatic brain injury. *Cell stem cell*, 31(4), 519.

Mottarlini F, et al. (2024) Communal nesting shapes the sex-dependent glutamatergic response to early life stress in the rat prefrontal cortex. *Frontiers in psychiatry*, 15, 1406687.

Ho KYL, et al. (2021) A gap-junction-mediated, calcium-signaling network controls blood progenitor fate decisions in hematopoiesis. *Current biology : CB*, 31(21), 4697.

Bertocchi I, et al. (2021) Voltage-independent GluN2A-type NMDA receptor Ca²⁺ signaling promotes audiogenic seizures, attentional and cognitive deficits in mice. *Communications biology*, 4(1), 59.

Liu J, et al. (2020) A Small-Molecule Approach to Restore a Slow-Oxidative Phenotype and Defective CaMKII β Signaling in Limb Girdle Muscular Dystrophy. *Cell reports. Medicine*, 1(7), 100122.

Mouton-Liger F, et al. (2011) PCP4 (PEP19) overexpression induces premature neuronal differentiation associated with Ca²⁺ /calmodulin-dependent kinase II β activation in mouse models of Down syndrome. *The Journal of comparative neurology*, 519(14), 2779.