Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 9, 2025

CaMKII beta Monoclonal Antibody (CB-beta-1)

RRID:AB_2533045
Type: Antibody

Proper Citation

(Thermo Fisher Scientific Cat# 13-9800, RRID:AB_2533045)

Antibody Information

URL: http://antibodyregistry.org/AB_2533045

Proper Citation: (Thermo Fisher Scientific Cat# 13-9800, RRID:AB_2533045)

Target Antigen: CaMKII beta

Host Organism: mouse

Clonality: monoclonal

Comments: Applications: ELISA (Assay-dependent), WB (1:1,000), IP (Assay-dependent), IHC (Assay-dependent)

Antibody Name: CaMKII beta Monoclonal Antibody (CB-beta-1)

Description: This monoclonal targets CaMKII beta

Target Organism: Human, Rat, Ovine, Mouse, Fish, Sea urchin

Clone ID: Clone CB-beta-1

Defining Citation: PMID:20124353, PMID:25998737, PMID:26110816, PMID:10488080, PMID:23502535, PMID:26215919, PMID:20357110, PMID:20878786, PMID:11468283, PMID:12408851, PMID:19771558, PMID:22516021, PMID:27244486

Antibody ID: AB_2533045

Vendor: Thermo Fisher Scientific

Catalog Number: 13-9800

Record Creation Time: 20231110T035530+0000

Record Last Update: 20240725T033420+0000

Ratings and Alerts

No rating or validation information has been found for CaMKII beta Monoclonal Antibody (CB-beta-1).

No alerts have been found for CaMKII beta Monoclonal Antibody (CB-beta-1).

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Yamazaki H, et al. (2023) Super-resolution imaging reveals the relationship between CaMKII? and drebrin within dendritic spines. Neuroscience research.

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.

Rigter PMF, et al. (2022) Adult Camk2a gene reinstatement restores the learning and plasticity deficits of Camk2a knockout mice. iScience, 25(11), 105303.

He X, et al. (2021) Gating of hippocampal rhythms and memory by synaptic plasticity in inhibitory interneurons. Neuron, 109(6), 1013.

Buonarati OR, et al. (2021) Conserved and divergent features of neuronal CaMKII holoenzyme structure, function, and high-order assembly. Cell reports, 37(13), 110168.

Sakai Y, et al. (2021) Gene-environment interactions mediate stress susceptibility and resilience through the CaMKII?/TARP?-8/AMPAR pathway. iScience, 24(5), 102504.

Ishizuka Y, et al. (2020) A simple DMSO-based method for cryopreservation of primary hippocampal and cortical neurons. Journal of neuroscience methods, 333, 108578.

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

Qin XH, et al. (2019) Liver Soluble Epoxide Hydrolase Regulates Behavioral and Cellular Effects of Chronic Stress. Cell reports, 29(10), 3223.

Kool MJ, et al. (2019) CAMK2-Dependent Signaling in Neurons Is Essential for Survival. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(28), 5424.

Yamagata Y, et al. (2018) Differential Involvement of Kinase Activity of Ca2+/Calmodulin-Dependent Protein Kinase II? in Hippocampus- and Amygdala-Dependent Memory Revealed by Kinase-Dead Knock-In Mouse. eNeuro, 5(4).

Yamazaki H, et al. (2018) CaMKII? is localized in dendritic spines as both drebrin-dependent and drebrin-independent pools. Journal of neurochemistry, 146(2), 145.

Sui S, et al. (2018) Cyclophilin D regulates neuronal activity-induced filopodiagenesis by fine-tuning dendritic mitochondrial calcium dynamics. Journal of neurochemistry, 146(4), 403.

Stephenson JR, et al. (2017) A Novel Human CAMK2A Mutation Disrupts Dendritic Morphology and Synaptic Transmission, and Causes ASD-Related Behaviors. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(8), 2216.