

Resource Summary Report

Generated by [RRID](#) on Sep 11, 2026

Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb

RRID:AB_659836

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 9316, RRID:AB_659836

Antibody Information

URL: http://antibodyregistry.org/AB_659836

Proper Citation: Cell Signaling Technology Cat# 9316, RRID:AB_659836

Target Antigen: Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IHC-P. Consolidation on 10/2018: AB_10171198, AB_10171260, AB_10175601, AB_659836, AB_659837.

Antibody Name: Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb

Description: This monoclonal targets Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb

Target Organism: rat, h, m, mouse, r, human, mk

Antibody ID: AB_659836

Vendor: Cell Signaling Technology

Catalog Number: 9316

Record Creation Time: 20231110T080229+0000

Record Last Update: 20260901T014712+0000

Ratings and Alerts

No rating or validation information has been found for Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb.

No alerts have been found for Phospho-GSK-3alpha (Ser21) (36E9) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Lacroix E, et al. (2025) PI3K/AKT signaling mediates stress-inducible amyloid formation through c-Myc. *Cell reports*, 44(5), 115617.

Cui G, et al. (2025) Inhibition of GSK3 and TSC2 Mediates the Oncogenic Activity of AKT in Hepatocellular Carcinoma. *Cancer research*, 85(24), 5049.

Zielinski JM, et al. (2025) Thyroid Hormone Receptor α Suppresses Cancer Cell Activity by Differential Regulation of Glycogen Metabolism. *Endocrinology*, 166(12).

Zhang J, et al. (2024) Maintaining Toll signaling in *Drosophila* brain is required to sustain autophagy for dopamine neuron survival. *iScience*, 27(2), 108795.

Leibinger M, et al. (2023) Inhibition of microtubule detyrosination by parthenolide facilitates functional CNS axon regeneration. *eLife*, 12.

Yu Y, et al. (2023) PTEN phosphatase inhibits metastasis by negatively regulating the Entpd5/IGF1R pathway through ATF6. *iScience*, 26(2), 106070.

Baranowski RW, et al. (2023) Toward countering muscle and bone loss with spaceflight: GSK3 as a potential target. *iScience*, 26(7), 107047.

Li Z, et al. (2022) Hotspot ESR1 Mutations Are Multimodal and Contextual Modulators of Breast Cancer Metastasis. *Cancer research*, 82(7), 1321.

Rousseau B, et al. (2022) Beta 2 adrenergic receptor and mu opioid receptor interact to potentiate the aggressiveness of human breast cancer cell by activating the glycogen synthase kinase 3 signaling. *Breast cancer research : BCR*, 24(1), 33.

Kiritsy MC, et al. (2021) A genetic screen in macrophages identifies new regulators of IFN γ -inducible MHCII that contribute to T cell activation. *eLife*, 10.

Vanderplow AM, et al. (2021) Akt-mTOR hypoactivity in bipolar disorder gives rise to cognitive impairments associated with altered neuronal structure and function. *Neuron*, 109(9), 1479.

Li J, et al. (2020) GSK-3 β Contributes to Parkinsonian Dopaminergic Neuron Death: Evidence From Conditional Knockout Mice and Tideglusib. *Frontiers in molecular neuroscience*, 13, 81.