# Resource Summary Report

Generated by RRID on Sep 11, 2026

## Rabbit Anti-GSK-3-alpha, phospho (Ser21) Monoclonal Antibody, Unconjugated, Clone 36E9

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:** GSK-3-alpha, phospho (Ser21)

**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:** Rabbit Anti-GSK-3-alpha, phospho (Ser21) Monoclonal Antibody, Unconjugated, Clone 36E9

**Description:** This monoclonal targets GSK-3-alpha, phospho (Ser21)

**Target Organism:** monkey, rat, simian, mouse, human

**Clone ID:** Clone 36E9

**Antibody ID:** AB_659836

**Vendor:** Cell Signaling Technology

**Catalog Number:** 9316

**Record Creation Time:** 20231110T043608+0000

**Record Last Update:** 20260829T004639+0000

### Ratings and Alerts

No rating or validation information has been found for Rabbit Anti-GSK-3-alpha, phospho (Ser21) Monoclonal Antibody, Unconjugated, Clone 36E9.

No alerts have been found for Rabbit Anti-GSK-3-alpha, phospho (Ser21) Monoclonal Antibody, Unconjugated, Clone 36E9.

## 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 ? 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.

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

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

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.

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.

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

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