

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

PKC alpha DN

RRID:Addgene_21235

Type: Plasmid

Proper Citation

RRID:Addgene_21235

Plasmid Information

URL: <http://www.addgene.org/21235>

Proper Citation: RRID:Addgene_21235

Insert Name: PKC alpha

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12794082](#)

Vector Backbone Description: Backbone Size:5400; Vector Backbone:pHACE; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: PKC alpha DN

Relevant Mutation: K368R

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260725T074424+0000

Ratings and Alerts

No rating or validation information has been found for PKC alpha DN.

No alerts have been found for PKC alpha DN.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Cho Y, et al. (2025) Reversible arginine methylation of PI3KC2 β controls mitotic spindle dynamics. *Cell communication and signaling : CCS*, 23(1), 409.

Wang W, et al. (2022) Sensing plasma membrane pore formation induces chemokine production in survivors of regulated necrosis. *Developmental cell*, 57(2), 228.

Tedja R, et al. (2019) Protein kinase C δ -mediated phosphorylation of Twist1 at Ser-144 prevents Twist1 ubiquitination and stabilizes it. *The Journal of biological chemistry*, 294(13), 5082.

Liu Z, et al. (2019) Induction of store-operated calcium entry (SOCE) suppresses glioblastoma growth by inhibiting the Hippo pathway transcriptional coactivators YAP/TAZ. *Oncogene*, 38(1), 120.

Cheng Y, et al. (2018) PKC δ in colon cancer cells promotes M1 macrophage polarization via MKK3/6-P38 MAPK pathway. *Molecular carcinogenesis*, 57(8), 1017.

Sinnen BL, et al. (2017) Optogenetic Control of Synaptic Composition and Function. *Neuron*, 93(3), 646.

Bhalla M, et al. (2017) Host Serine/Threonine Kinases mTOR and Protein Kinase C- δ Promote InlB-Mediated Entry of *Listeria monocytogenes*. *Infection and immunity*, 85(7).

Sepp M, et al. (2017) The Intellectual Disability and Schizophrenia Associated Transcription Factor TCF4 Is Regulated by Neuronal Activity and Protein Kinase A. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(43), 10516.

Gonzalez AA, et al. (2017) PGE2 upregulates renin through E-prostanoid receptor 1 via PKC/cAMP/CREB pathway in M-1 cells. *American journal of physiology. Renal physiology*, 313(4), F1038.

Vang A, et al. (2017) Effect of $\alpha 7$ nicotinic acetylcholine receptor activation on cardiac fibroblasts: a mechanism underlying RV fibrosis associated with cigarette smoke exposure. *American journal of physiology. Lung cellular and molecular physiology*, 312(5), L748.

Kunde SA, et al. (2017) Protein kinase C regulates AMPA receptor auxiliary protein Shisa9/CKAMP44 through interactions with neuronal scaffold PICK1. *FEBS open bio*, 7(9), 1234.

Rath S, et al. (2016) Cobalt chloride-mediated protein kinase C δ (PKC δ) phosphorylation induces hypoxia-inducible factor 1 α (HIF1 α) in the nucleus of gastric cancer cell. *Biochemical and biophysical research communications*, 471(1), 205.

Gonzalez AA, et al. (2015) PKC- δ -dependent augmentation of cAMP and CREB phosphorylation mediates the angiotensin II stimulation of renin in the collecting duct. American journal of physiology. Renal physiology, 309(10), F880.

Poli A, et al. (2014) A novel DAG-dependent mechanism links PKC δ and Cyclin B1 regulating cell cycle progression. Oncotarget, 5(22), 11526.

Benseddik K, et al. (2013) ErbB2-dependent chemotaxis requires microtubule capture and stabilization coordinated by distinct signaling pathways. PloS one, 8(1), e55211.

Chen X, et al. (2012) Analysis of substrates of protein kinase C isoforms in human breast cells by the traceable kinase method. Biochemistry, 51(36), 7087.