

Resource Summary Report

Generated by [NIF](#) on Jul 30, 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- α -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.