

Resource Summary Report

Generated by [kravitz2](#) on Aug 9, 2026

pcDNA3-AKT-PH-GFP

RRID:Addgene_18836

Type: Plasmid

Proper Citation

RRID:Addgene_18836

Plasmid Information

URL: <http://www.addgene.org/18836>

Proper Citation: RRID:Addgene_18836

Insert Name: AKT-PH domain

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17317623](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5000; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-AKT-PH-GFP

Relevant Mutation: contains amino acids 1-148 (compared to GenBank reference NP_005154.2)

Record Creation Time: 20220422T222043+0000

Record Last Update: 20260808T081346+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-AKT-PH-GFP.

No alerts have been found for pcDNA3-AKT-PH-GFP.

Data and Source Information

Usage and Citation Metrics

We found 29 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Shim MS, et al. (2025) Class I PI3Ks activate stretch-induced autophagy in trabecular meshwork cells. Cellular and molecular life sciences : CMLS, 82(1), 82.

Ishida M, et al. (2025) Traveling-wave chemotaxis of neutrophil-like HL-60 cells. Molecular biology of the cell, 36(2), ar17.

Domma AJ, et al. (2023) Human cytomegalovirus attenuates AKT activity by destabilizing insulin receptor substrate proteins. bioRxiv : the preprint server for biology.

Domma AJ, et al. (2023) Human cytomegalovirus attenuates AKT activity by destabilizing insulin receptor substrate proteins. Journal of virology, 97(10), e0056323.

Hu SH, et al. (2022) Methylene-bridge tryptophan fatty acylation regulates PI3K-AKT signaling and glucose uptake. Cell reports, 38(11), 110509.

Brandel A, et al. (2021) The Gb3-enriched CD59/flotillin plasma membrane domain regulates host cell invasion by Pseudomonas aeruginosa. Cellular and molecular life sciences : CMLS, 78(7), 3637.

Voss OH, et al. (2020) Risk1, a Phosphatidylinositol 3-Kinase Effector, Promotes Rickettsia typhi Intracellular Survival. mBio, 11(3).

Amable G, et al. (2019) Metformin inhibits β -catenin phosphorylation on Ser-552 through an AMPK/PI3K/Akt pathway in colorectal cancer cells. The international journal of biochemistry & cell biology, 112, 88.

Hao F, et al. (2019) Lipophilic statins inhibit YAP nuclear localization, co-activator activity and colony formation in pancreatic cancer cells and prevent the initial stages of pancreatic ductal adenocarcinoma in KrasG12D mice. PloS one, 14(5), e0216603.

Yang S, et al. (2019) The flavonoid baicalin improves glucose metabolism by targeting the PH domain of AKT and activating AKT/GSK3 β phosphorylation. FEBS letters, 593(2), 175.

Chen G, et al. (2019) Mcl-1 Interacts with Akt to Promote Lung Cancer Progression. Cancer research, 79(24), 6126.

Nnah IC, et al. (2019) TFEB-driven endocytosis coordinates MTORC1 signaling and autophagy. Autophagy, 15(1), 151.

Ren C, et al. (2019) Leukocyte Cytoskeleton Polarization Is Initiated by Plasma Membrane Curvature from Cell Attachment. Developmental cell, 49(2), 206.

Zhu K, et al. (2019) Expression of integrins to control migration direction of electrotaxis. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 33(8), 9131.

Iuliano O, et al. (2018) Myosin 1b promotes axon formation by regulating actin wave propagation and growth cone dynamics. The Journal of cell biology, 217(6), 2033.

Hao F, et al. (2017) Insulin Receptor and GPCR Crosstalk Stimulates YAP via PI3K and PKD in Pancreatic Cancer Cells. Molecular cancer research : MCR, 15(7), 929.

Panda PK, et al. (2017) Abrus Agglutinin, a type II ribosome inactivating protein inhibits Akt/PH domain to induce endoplasmic reticulum stress mediated autophagy-dependent cell death. Molecular carcinogenesis, 56(2), 389.

Burda PC, et al. (2017) Manipulation of the Host Cell Membrane during Plasmodium Liver Stage Egress. mBio, 8(2).

Kimura S, et al. (2016) Distinct Roles for the N- and C-terminal Regions of M-Sec in Plasma Membrane Deformation during Tunneling Nanotube Formation. Scientific reports, 6, 33548.

Rennoll-Bankert KE, et al. (2016) RalF-Mediated Activation of Arf6 Controls Rickettsia typhi Invasion by Co-Opting Phosphoinositol Metabolism. Infection and immunity, 84(12), 3496.