

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pBABE-FLAG-LKB1

RRID:Addgene_8592

Type: Plasmid

Proper Citation

RRID:Addgene_8592

Plasmid Information

URL: <http://www.addgene.org/8592>

Proper Citation: RRID:Addgene_8592

Insert Name: LKB1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:14985505](#)

Vector Backbone Description: Backbone Size:5169; Vector Backbone:pBABE-puro; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Plasmid Name: pBABE-FLAG-LKB1

Record Creation Time: 20220422T222553+0000

Record Last Update: 20260815T082129+0000

Ratings and Alerts

No rating or validation information has been found for pBABE-FLAG-LKB1.

No alerts have been found for pBABE-FLAG-LKB1.

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 [RRID](#) .

Chen Y, et al. (2026) Canagliflozin and Brusatol Synergize against LKB1-KEAP1 Co-Mutant NSCLC through AKT Suppression. International journal of biological sciences, 22(9), 4618.

Liu J, et al. (2025) Survival benefit from abemaciclib in non-small cell lung cancer by Kirsten rat sarcoma-mutation gene expression subtype: retrospective analysis from the JUNIPER Trial. Frontiers in oncology, 15, 1461530.

Proteau S, et al. (2023) LKB1-SIK2 loss drives uveal melanoma proliferation and hypersensitivity to SLC8A1 and ROS inhibition. EMBO molecular medicine, 15(12), e17719.

Deng J, et al. (2021) ULK1 inhibition overcomes compromised antigen presentation and restores antitumor immunity in LKB1 mutant lung cancer. Nature cancer, 2(5), 503.

Ren Y, et al. (2021) Oxidative stress-mediated AMPK inactivation determines the high susceptibility of LKB1-mutant NSCLC cells to glucose starvation. Free radical biology & medicine, 166, 128.

Hermanova I, et al. (2020) Genetic manipulation of LKB1 elicits lethal metastatic prostate cancer. The Journal of experimental medicine, 217(6).

Jones GG, et al. (2019) SHOC2 phosphatase-dependent RAF dimerization mediates resistance to MEK inhibition in RAS-mutant cancers. Nature communications, 10(1), 2532.

Zulato E, et al. (2018) LKB1 loss is associated with glutathione deficiency under oxidative stress and sensitivity of cancer cells to cytotoxic drugs and γ -irradiation. Biochemical pharmacology, 156, 479.

Zulato E, et al. (2018) Involvement of NADPH Oxidase 1 in Liver Kinase B1-Mediated Effects on Tumor Angiogenesis and Growth. Frontiers in oncology, 8, 195.

Kim J, et al. (2017) CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. Nature, 546(7656), 168.

Hai J, et al. (2017) Synergy of WEE1 and mTOR Inhibition in Mutant KRAS-Driven Lung Cancers. Clinical cancer research : an official journal of the American Association for Cancer Research, 23(22), 6993.

Sun A, et al. (2016) GSK-3 β controls autophagy by modulating LKB1-AMPK pathway in prostate cancer cells. The Prostate, 76(2), 172.

Ritho J, et al. (2015) A Critical SUMO1 Modification of LKB1 Regulates AMPK Activity during Energy Stress. Cell reports, 12(5), 734.

Shackelford DB, et al. (2013) LKB1 inactivation dictates therapeutic response of non-small cell lung cancer to the metabolism drug phenformin. Cancer cell, 23(2), 143.

Mack HI, et al. (2013) The LKB1 tumor suppressor differentially affects anchorage independent growth of HPV positive cervical cancer cell lines. *Virology*, 446(1-2), 9.

Salem AF, et al. (2012) Two-compartment tumor metabolism: autophagy in the tumor microenvironment and oxidative mitochondrial metabolism (OXPHOS) in cancer cells. *Cell cycle (Georgetown, Tex.)*, 11(13), 2545.