

Resource Summary Report

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

pBABE-FLAG-KD LKB1

RRID:Addgene_8593

Type: Plasmid

Proper Citation

RRID:Addgene_8593

Plasmid Information

URL: <http://www.addgene.org/8593>

Proper Citation: RRID:Addgene_8593

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-KD LKB1

Relevant Mutation: K78I: lysine 78 mutated to isoleucine; kinase dead

Record Creation Time: 20220422T222553+0000

Record Last Update: 20260815T082129+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 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.

Qian Y, et al. (2023) MCT4-dependent lactate secretion suppresses antitumor immunity in LKB1-deficient lung adenocarcinoma. Cancer cell, 41(7), 1363.

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).

Lee Y, et al. (2018) Dishevelled has a YAP nuclear export function in a tumor suppressor context-dependent manner. Nature communications, 9(1), 2301.

Cooper JM, et al. (2017) TBK1 Provides Context-Selective Support of the Activated AKT/mTOR Pathway in Lung Cancer. Cancer research, 77(18), 5077.

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?? 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.