

Product Name: KD-Validated PDPK1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAb00715**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 63.2kDa

Antigen Information

Gene Name	PDPK1
Alternative Names	PDPK1; 3-Phosphoinositide Dependent Protein Kinase 1; PDK1; 3-Phosphoinositide-Dependent Protein Kinase 1; EC 2.7.11.1; 3-Phosphoinositide-Dependent Protein Kinase 2 Pseudogene; Putative 3-Phosphoinositide-Dependent Protein Kinase; PkB Kinase Like Gene 1; PkB Kinase; EC 2.7.11; PRO0461; PDPK2P; PDPK2; HPDK1
Gene ID	5170.0
SwissProt ID	O15530
Immunogen	A synthesized peptide derived from human PDPK1

Background

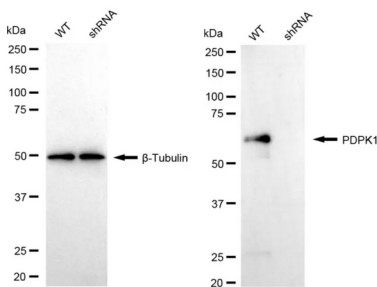
Enables 3-phosphoinositide-dependent protein kinase activity; phospholipase activator activity; and phospholipase binding

activity. Involved in several processes, including cell surface receptor signaling pathway; intracellular signaling cassette; and regulation of signal transduction. Acts upstream of or within intracellular signal transduction. Located in cell projection; cytosol; and plasma membrane. Implicated in prostate cancer. Biomarker of lung non-small cell carcinoma. [provided by Alliance of Genome Resources, Jul 2025]

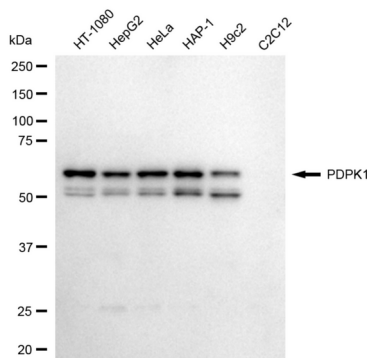
Research Area

Signal Transduction

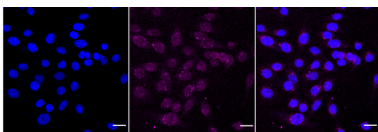
Image Data



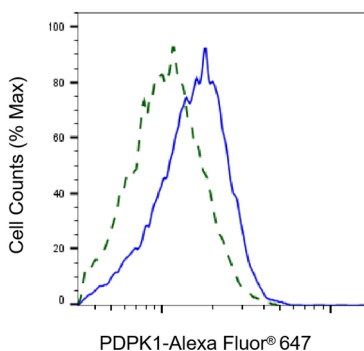
Western blotting analysis using PDPK1 antibody (KVA00715). PDPK1 expression in wild type (WT) and PDPK1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with PDPK1 antibody (KVA00715, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



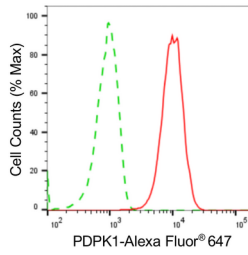
Western blotting analysis using PDPK1 antibody (KVA00715). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PDPK1 antibody (KVA00715, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. PDPK1, 3-phosphoinositide dependent protein kinase 1.



Immunocytochemical staining of HepG2 cells with PDPK1 antibody (KVA00715, 1:1,000). Nuclei were stained blue with DAPI; PDPK1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of PDPK1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PDPK1 antibody (KVA00715, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PDPK1 expression in HepG2 cells using PDPK1 antibody (KVA00715, 1:2,000). Green, isotype control; red, PDPK1.