

[KD Validated] Anti-PDPK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

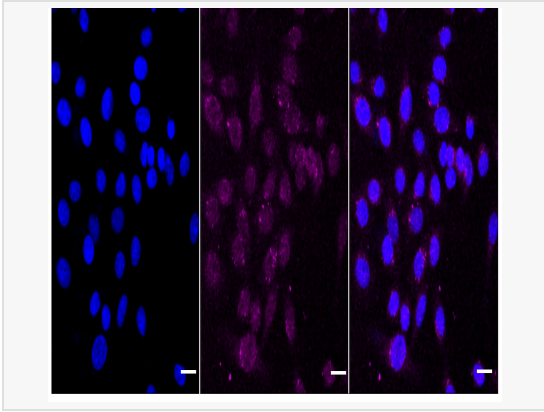
Catalog # R020788

Product Information

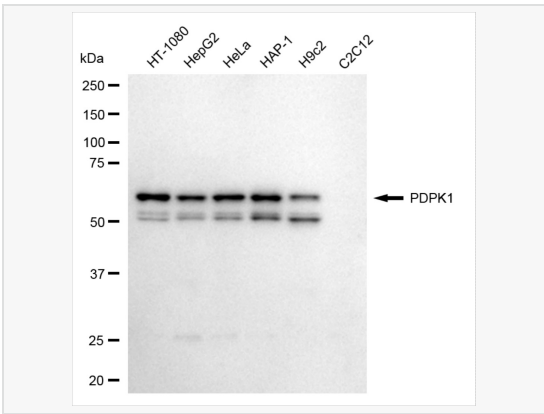
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	88S53N34
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PDPK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-PDPK1 Rabbit mAb [88S53N34] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

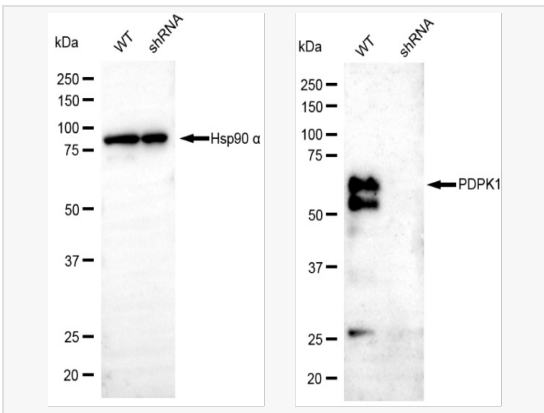
Synonyms	PDPK1; 3-Phosphoinositide Dependent Protein Kinase 1; PDK1; 3-Phosphoinositide-Dependent Protein Kinase 1; EC 2.7.11.1; 3-Phosphoinositide-Dependent Protein Kinase 2 Pseudogene; Putative 3-Phosphoinositide-Dependent Protein Kinase; PkB Kinase Like Gene 1; PkB Kinase; EC 2.7.11; PRO0461; PDPK2P; PDPK2; HPDK1.
Calculated MW	Calculated MW: 63 kDa, Observed MW: 63 kDa
Uniprot ID	O15530
Gene ID	5170
Background	Phosphoinositide-dependent protein kinase 1 (PDK1) plays a central role in many signal transduction pathways including the activation of Akt and the PKC isoenzymes p70 S6 kinase and RSK. Through its effects on these kinases, PDK1 is involved in the regulation of a wide variety of processes, including cell proliferation, differentiation and apoptosis.



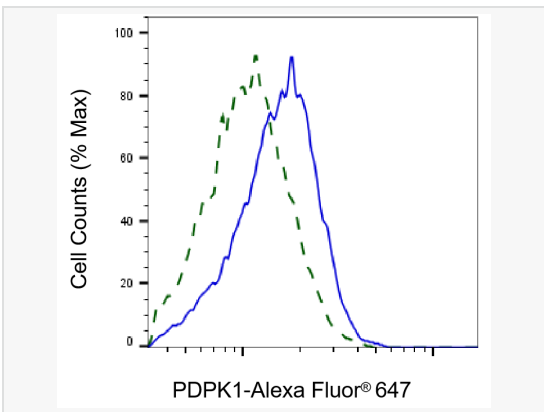
Immunocytochemical staining of HepG2 cells with PDPK1 antibody (R020788, 1:1,000). Nuclei were stained blue with DAPI; PDPK1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



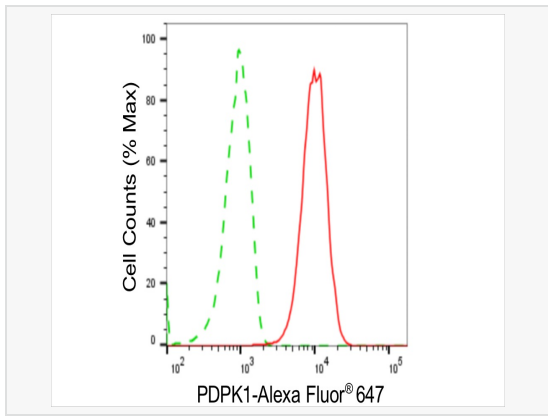
Western blotting analysis using PDPK1 antibody (R020788). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PDPK1 antibody (R020788, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit. PDPK1, 3-phosphoinositide dependent protein kinase 1.



Western blotting analysis using PDPK1 antibody (R020788). 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 (R020788, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Validation of PDPK1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PDPK1 antibody (R020788, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PDPK1 expression in HepG2 cells using PDPK1 antibody (R020788, 1:2,000). Green, isotype control; red, PDPK1.