
Product Name: PDPK1 Mouse Monoclonal Antibody**Catalog #: AMM81491**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ICC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	63.2kDa

Antigen Information

Gene Name	PDPK1
Alternative Names	PDK1; PDPK2; PDPK2P; PRO0461
Gene ID	5170.0
SwissProt ID	O15530
Immunogen	Purified recombinant fragment of human PDPK1 (AA: 457-556 expressed in E. Coli).

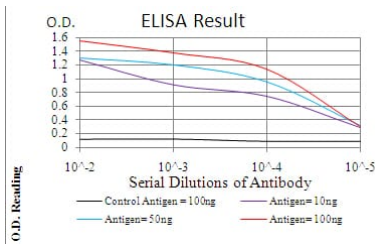
Background

Phosphoinositide-dependent kinase 1 (PDPK1, PDK1) is a serine/threonine protein kinase integral to the function of the PI 3-K/Akt signaling pathway. PDK1 and mTORC2 both phosphorylate and activate PKB/Akt, ensuring a cellular response to stimuli such as growth factors and insulin signaling. Akt is the main effector of PDK1.

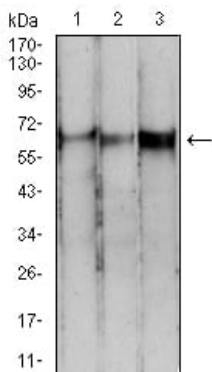
Research Area

PI3K-Akt signaling pathway, mTOR signaling pathway

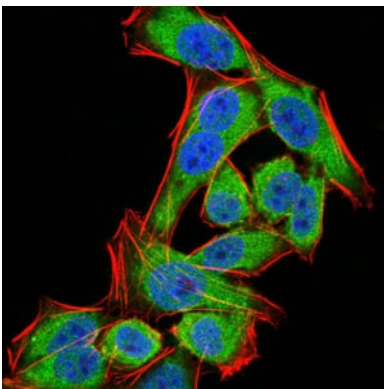
Image Data



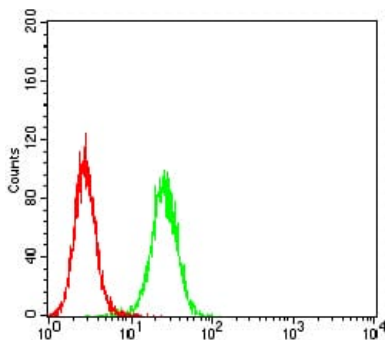
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using PDPK1 mouse mAb against MCF-7 (1), HeLa (2), and U937 (3) cell lysate.



Immunofluorescence analysis of HeLa cells using PDPK1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Flow cytometric analysis of HeLa cells using PDPK1 mouse mAb (green) and negative control (red).