Product Name: PDPK1 Mouse Monoclonal Antibody
Catalog #: AMM81490

Summary

Production Name	PDPK1 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Mouse,Monkey,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

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

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:50-1:200,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	63.2kDa

Background

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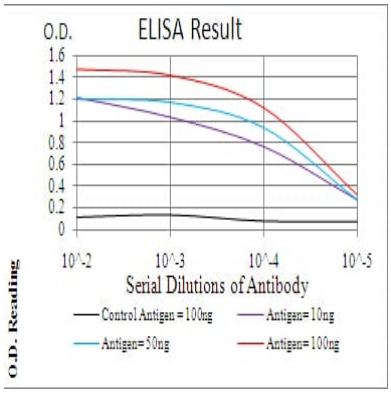
Phosphoinositide-dependent kinase 1 (PDPK1, PDK1) is a serine/threonine protein kinase integral to the function of the PI 3-K/Akt signaling pathway. PDK1 and mTORC2 both phosphorylate and activate PKB/Akt, ensuring a cellular response to stimuli such as growth factors and insulin signaling. Akt is the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

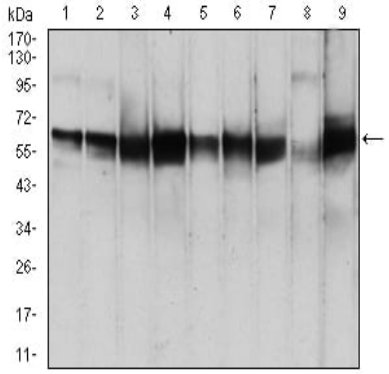
Research Area

PI3K-Akt signaling pathway,mTOR signaling pathway

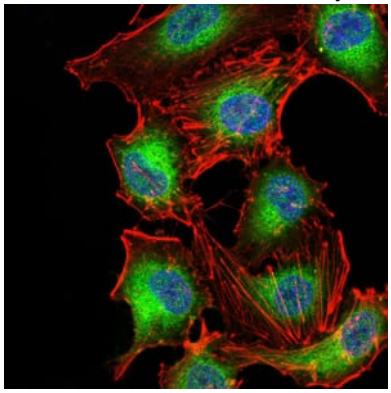
Image Data



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), K562 (3), U937 (4), A549 (5), NIH/3T3 (6), Jurkat (7), PC-12 (8), and Cos7 (9) cell lysate.



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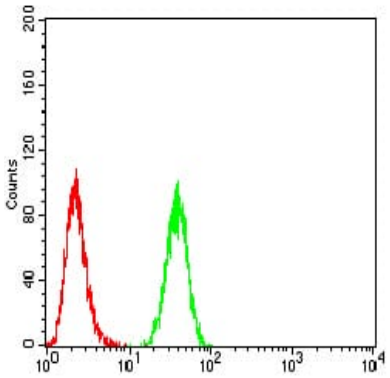
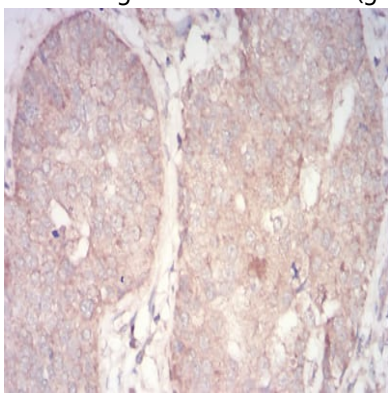
Immunofluorescence analysis of A549 cells using PDPK1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of A549 cells using PDPK1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using PDPK1 mouse mAb with DAB staining.

Note

For research use only.