

PRK2 Monoclonal Antibody

Catalog No :	YM0534
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;FCM;ELISA
Target :	PRK2
Fields :	>>PI3K-Akt signaling pathway;>>NOD-like receptor signaling pathway;>>Yersinia infection
Gene Name :	PKN2
Protein Name :	Serine/threonine-protein kinase N2
Human Gene Id :	5586
Human Swiss Prot No :	Q16513
Mouse Gene Id :	109333
Mouse Swiss Prot No :	Q8BWW9
Rat Swiss Prot No :	O08874
Immunogen :	Purified recombinant fragment of human PRK2 expressed in E. Coli.
Specificity :	PRK2 Monoclonal Antibody detects endogenous levels of PRK2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Molecularweight : 112kD

P References :

1. Cell. 2009 Jul 23;138(2):389-403.
2. Ann Intern Med. 2009 Apr 21;150(8):541-50.

Background :

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:The C1 domain does not bind the diacylglycerol (DAG).,enzyme regulation:Activated by lipids, particularly cardiolipin and to a lesser extent by other acidic phospholipids and unsaturated fatty acids. Two specific sites, Thr-816 (activation loop of the kinase domain) and Thr-958 (turn motif), need to be phosphorylated for its full activation.,function:Exhibits a preference for highly basic protein substrates.,PTM:Activated by limited proteolysis with trypsin.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 C2 domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 3 REM (Hr1) repeats.,

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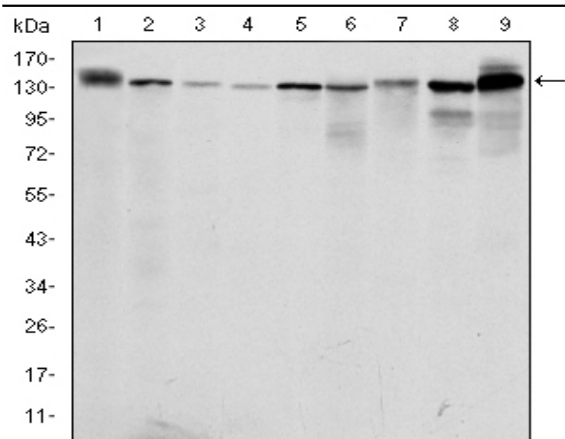
Subcellular Location :

Cytoplasm . Nucleus . Membrane . Cell projection, lamellipodium . Cytoplasm, cytoskeleton . Cleavage furrow . Midbody . Cell junction . Colocalizes with PTPN13 in lamellipodia-like structures, regions of large actin turnover. Accumulates during telophase at the cleavage furrow and concentrates finally around the midbody in cytokinesis. Recruited to nascent cell-cell contacts at the apical surface of cells. In the course of viral infection, colocalizes with HCV NS5B at perinuclear region in the cytoplasm. .

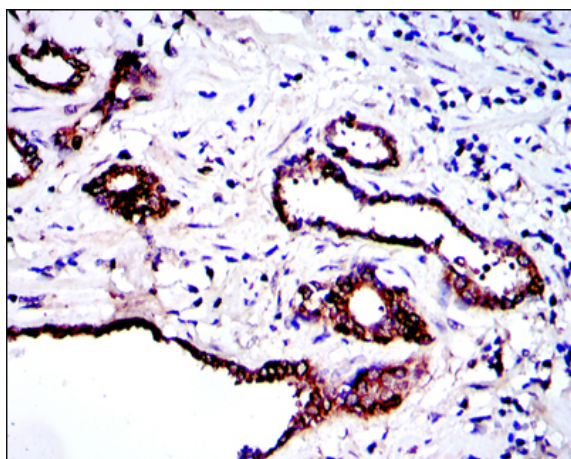
Expression :

Ubiquitous. Expressed in numerous tumor cell lines, especially in bladder tumor cells.

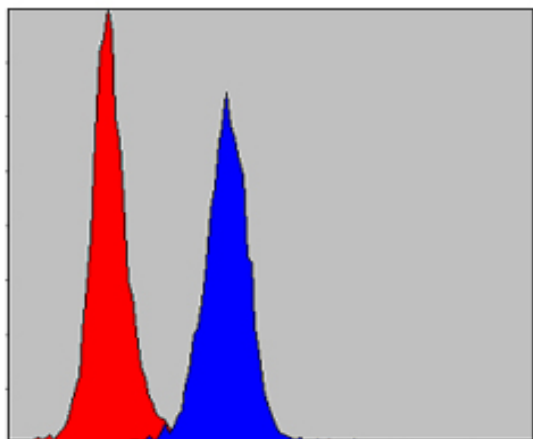
Products Images



Western Blot analysis using PRK2 Monoclonal Antibody against PC-12 (1), Cos7 (2), K562 (3), Jurkat (4), HeLa (5), A431 (6), C6 (7), NIH/3T3 (8) and HEK293 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded prostate tissues with DAB staining using PRK2 Monoclonal Antibody.



Flow cytometric analysis of NIH/3T3 cells using PRK2 Monoclonal Antibody (blue) and negative control (red).

