



# PRK2 Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-14185
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Applications</b>	WB;IHC;IF;FCM;ELISA
<b>Gene Name</b>	PKN2
<b>Protein Name</b>	Serine/threonine-protein kinase N2
<b>Immunogen</b>	Purified recombinant fragment of human PRK2 expressed in E. Coli.
<b>Specificity</b>	PRK2 Monoclonal Antibody detects endogenous levels of PRK2 protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PKN2; PRK2; PRKCL2; Serine/threonine-protein kinase N2; PKN gamma; Protein kinase C-like 2; Protein-kinase C-related kinase 2
<b>Observed Band</b>	
<b>Cell Pathway</b>	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. .
<b>Tissue Specificity</b>	Ubiquitous. Expressed in numerous tumor cell lines, especially in bladder tumor cells.
<b>Function</b>	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.,

**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.,

**matters needing attention**

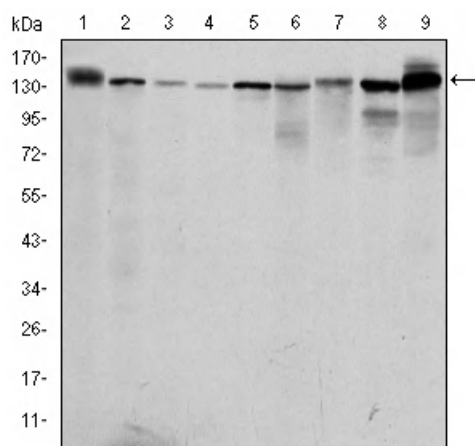
Avoid repeated freezing and thawing!

**Usage suggestions**

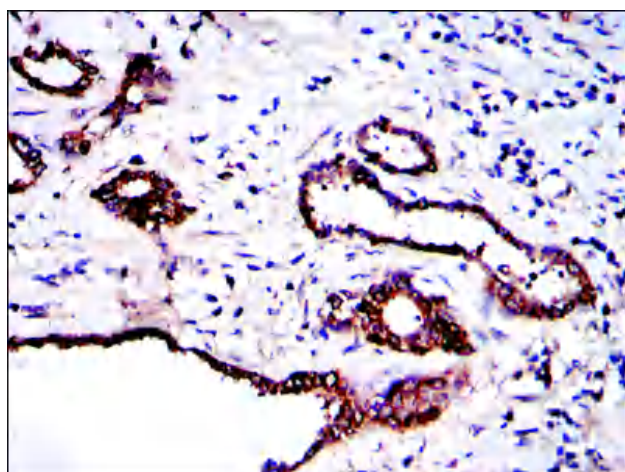
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



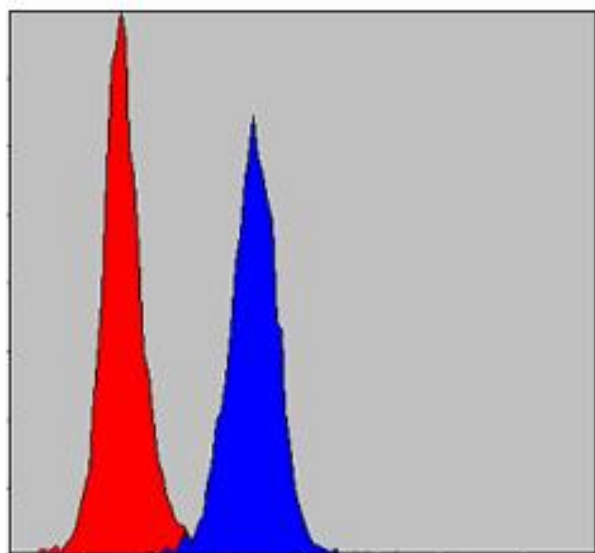
## Products Images



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).

