

### **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

Q16513

Q8BWW9

**Human Gene Id:** 5586

**Human Swiss Prot** 

No:

Mouse Gene Id: 109333

**Mouse Swiss Prot** 

No:

Rat Swiss Prot No: 008874

**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

1/4



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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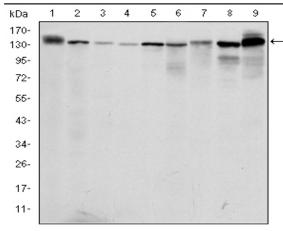
# Subcellular Location:

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.

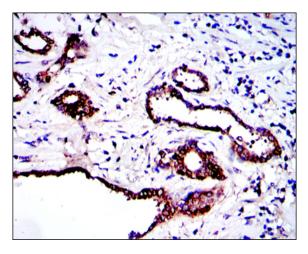
### **Expression:**

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

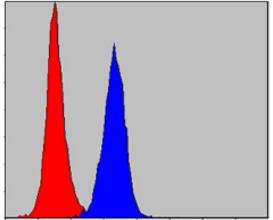
## **Products Images**



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).

