Anti-Phospho-PRK1/2/3 (Thr816/Thr774/Thr718) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015397

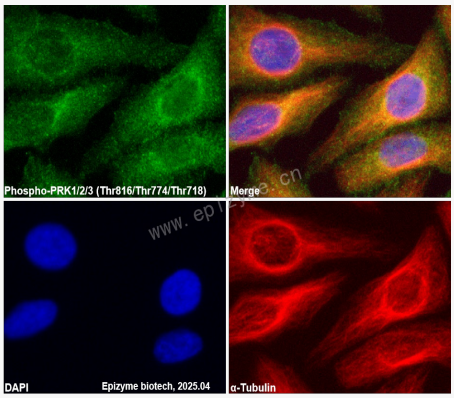
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	94D74P36
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr816 of human PRK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-PRK1/2/3 (Thr816/Thr774/Thr718) Rabbit mAb [94D74P36] is for research use only and not for use in diagnostic or therapeutic procedures.

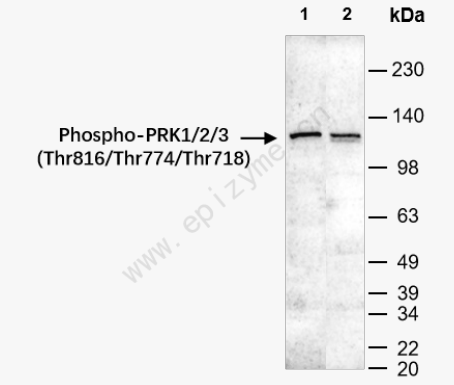
Protein Information

Synonyms	PAK-1; PAK1; PKN; PKN gamma; PKN1; PKN2; PKN3; PKNBETA; PRK1; PRK2; PRKCL1; PRKCL2; Protease-activated kinase 1; Protein kinase C-like 1; Protein kinase C-like 2; Protein kinase C-like PKN; Protein kinase PKN-alpha; Protein kinase PKN-beta; Protein-kinase C-related kinase 1; Protein-kinase C-related kinase 2; Protein-kinase C-related kinase 3; Serine-threonine protein kinase N; Serine/threonine-protein kinase N1; Serine/threonine-protein kinase N2; Serine/threonine-protein kinase N3.
Calculated MW	Calculated MW: 99 kDa; Observed MW: 122 kDa
Uniprot ID	Q16512, Q16513, Q6P5Z2
Gene ID	5585, 5586, 29941
Background	The protein encoded by this gene belongs to the protein kinase C superfamily. This kinase is activated by Rho family of small G proteins and may mediate the Rho-dependent signaling pathway. This kinase can be activated by phospholipids and by limited proteolysis. The 3-phosphoinositide dependent protein kinase-1 (PDPK1/PDK1) is reported to phosphorylate this kinase, which may mediate insulin signals to the actin cytoskeleton. The proteolytic activation of this kinase by caspase-3 or related proteases during apoptosis suggests its role in signal transduction related to apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008].
Cellular Location	Cytoplasm. Nucleus. Cell membrane. Cleavage furrow. Midbody.

Validation Images



Immunofluorescence - Anti-Phospho-PRK1/2/3 (Thr816/Thr774/Thr718) Rabbit mAb [94D74P36]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015397 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Phospho-PRK1/2/3 (Thr816/Thr774/Thr718) Rabbit mAb [94D74P36]
All lanes: R015397 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 99 kDa
Observed band size: 122 kDa
Developed using the ECL technique (Cat. No. SQ201).