Product Name: PRK1 (phospho-Thr774)/PRK2 (phospho-Thr816) Rabbit Polyclonal Antibody
Catalog #: APRab05308

Summary

Production Name	PRK1 (phospho-Thr774)/PRK2 (phospho-Thr816) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	
Alternative Names	Serine/threonine-protein kinase N1 (EC 2.7.11.13) (Protease-activated kinase 1) (PAK-1) (Protein kinase C-like 1) (Protein kinase C-like PKN) (Protein kinase PKN-alpha) (Protein-kinase C-related kinase 1) (Serine-threonine protein kinase N)
Gene ID	5585.0
SwissProt ID	Q16512.Synthesized phosho peptide around human PRK1 (Thr774) and PRK2 (Thr816)

Application

Dilution Ratio	WB 1:500-2000; ELISA 2000-20000
Molecular Weight	103kD

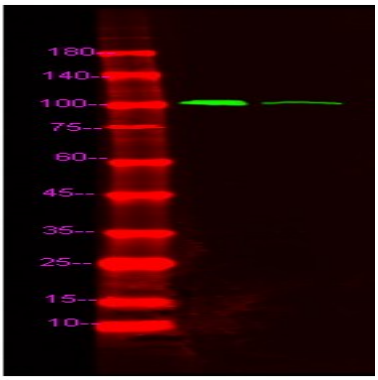
Product Name: PRK1 (phospho-Thr774)/PRK2 (phospho-Thr816) Rabbit Polyclonal Antibody
Catalog #: APRab05308

Background

protein kinase N1(PKN1) Homo sapiens 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],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. Two specific sites, Thr-774 (activation loop of the kinase domain) and Ser-916 (turn motif), need to be phosphorylated for its full activation.,function:Can phosphorylate ribosomal protein S6. Mediates GTPase Rho dependent intracellular signaling.,PTM:Activated by limited proteolysis with trypsin.,PTM:Autophosphorylated; preferably on serine.,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.,subunit:Interacts with ZA20D3 (By similarity). Interacts with RhoA and Rac1.,tissue specificity:Found ubiquitously. Expressed in heart, brain, placenta, lung, skeletal muscle, kidney and pancreas.,

Research Area

Image Data



Western Blot analysis of Hela treated or untreated by LPS lysis, using primary antibody at 1:1000 dilution. Secondary antibody was diluted at 1:10000

Note

Product Name: PRK1 (phospho-Thr774)/PRK2 (phospho-Thr816) Rabbit Polyclonal Antibody
Catalog #: APRab05308

For research use only.