

bsm-54037R**[Primary Antibody]**

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PDPK1 Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Clonality:** Recombinant**GeneID:** 5170**Target:** PDPK1**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: PDK1 (3 Phosphoinositide Dependent Protein Kinase 1) phosphorylates AGC kinases. PDK1 activates conventional PKC and PKC zeta through phosphorylation of critical threonine residues in the activation loop. PDK1 also phosphorylates Protein Kinase B (PKB) at threonine 308 in the presence of phosphatidylinositol-3,4,5-trisphosphate. Active Akt inactivates Glycogen Synthase Kinase 3 (GSK3), eventually leading to the dephosphorylation and activation of glycogen synthase and the stimulation of glycogen synthesis. Because of the role that PDK plays in insulin-induced glycogen synthesis and PKC activation it is a potentially important target for metabolic drug research. There are three named isoforms.

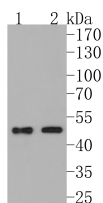
Isotype: IgG**CloneNo.:** 2F9**SWISS:** O15530

Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:400-800)
IF (1:100-500)
Flow-Cyt (1:50)
ICC/IF (1:50)

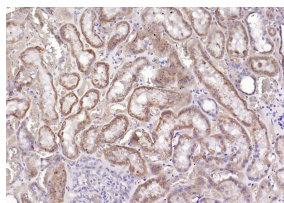
Reactivity: Human, Mouse, Rat

Predicted
MW.: 61 kDa

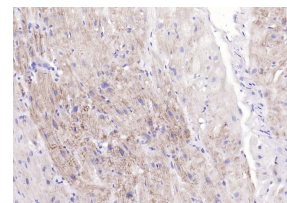
Subcellular
Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

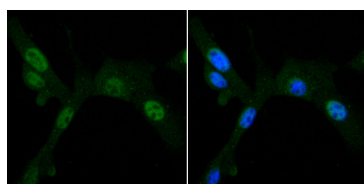
Sample: Lane 1: rat heart tissue lysate Lane 2: mouse heart tissue lysate Primary: Anti-PDK1 (bsm-54037R) at 1:500 dilution Secondary: Goat Anti-Rabbit IgG - HRP at 1:5000 dilution
Predicted band size: 61 kD Observed band size: 50 kD



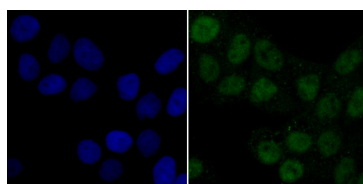
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDK1) Monoclonal Antibody, Unconjugated (bsm-54037R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



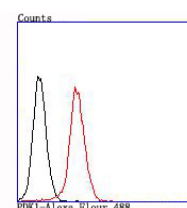
Paraformaldehyde-fixed, paraffin embedded (human myocardium); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDK1) Monoclonal Antibody, Unconjugated (bsm-54037R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PDK1)



HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PDK1)



Blank control:NIH/3T3. Primary Antibody (green line): Rabbit Anti-PDK1 antibody (bsm-54037R) Dilution: 1:50; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

monoclonal Antibody, Unconjugated
(bsm-54037R) 1:50, 90 minutes at 37°C; followed
by a conjugated Goat Anti-Rabbit IgG antibody
at 37°C for 90 minutes, DAPI (blue, C02-04002)
was used to stain the cell nuclei.

monoclonal Antibody, Unconjugated
(bsm-54037R) 1:50, 90 minutes at 37°C; followed
by a conjugated Goat Anti-Rabbit IgG antibody
at 37°C for 90 minutes, DAPI (blue, C02-04002)
was used to stain the cell nuclei.

anti-rabbit IgG-AF488 Dilution: 1:1000. Protocol
The cells were fixed with 4% PFA (10min at room
temperature) and then permeabilized with 90%
ice-cold methanol for 20 min at -20°C. The cells
were then incubated in 5%BSA to block non-
specific protein-protein interactions for 30 min
at room temperature .Cells stained with Primary
Antibody for 30 min at room temperature. The
secondary antibody used for 40 min at room
temperature. Acquisition of 20,000 events was
performed.