

bs-5543R**[Primary Antibody]****phospho-PDPK1 (Tyr9) Rabbit pAb****BioSS**
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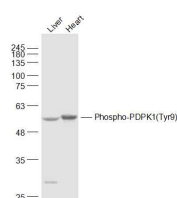
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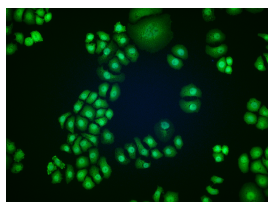
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) ICC/IF (1:25)
Clonality: Polyclonal		
GeneID: 5170	SWISS: O15530	Reactivity: Human, Mouse (predicted: Rat)
Target: PDPK1 (Tyr9)		
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PDK1 around the phosphorylation site of Tyr9: QL(p-Y)DA.		Predicted MW.: 61 kDa
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Subcellular Location: Cell membrane ,Cytoplasm
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.		

VALIDATION IMAGES

— VALIDATION IMAGES —

Sample: Liver (Mouse) Lysate at 40 ug Heart (Mouse) Lysate at 40 ug
 Primary: Anti-Phospho-PDPK1(Tyr9) (bs-5543R) at 1/500 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 61 kD
 Observed band size: 51 kD



HepG2 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 (Phospho-PDPK1 (Tyr9)) polyclonal Antibody, Unconjugated (bs-5543R) 1:25, 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.