

Anti-Phospho-PDPK1 (Tyr9) Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Human,Mouse (predicted:Rat) |
| Molecular Weight: | Theoretical: 61 kDa. Actual: 51 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | 1. Sample: Liver (Mouse) Lysate at 40 µg Heart (Mouse) Lysate at 40 µg Primary: Anti-Phospho-PDPK1 (Tyr9) (TMAB-11131) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 61 kD Observed band size: 51 kD |
| | 2. HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Phospho-PDPK1 (Tyr9)) polyclonal Antibody, Unconjugated (TMAB-11131) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei. |
| Application: | WB,ICC/IF |
| Recommended | WB: 1:500-2000; ICC/IF: 1:50-200 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated Synthesised phosphopeptide: human PDK1 around the phosphorylation site of Tyr9 |
| Antigen Species: | Human |
| Gene ID: | 5170 |
| Uniprot ID: | O15530 |

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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