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Phospho-PDPK1-S241

Reactivity: Human Mouse Rat

Tested applications:WB IHC ICC IP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:100 IP 1:20 - 1:50

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S241 of human PDK1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

PDPK1; MGC20087 ; MGC35290 ;PDK1;PRO0461; 3-phosphoinositide-dependent protein kinase 1;

Catalog #:AP0096

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5170

Isotype: IgG

Swiss Prot:O15530

Purity: Affinity purification

For research use only.

Background:

A hallmark of signal transduction pathways is the reversible phosphorylation of serine and threonine residues within specific sequences, or motifs, in target proteins. Specific signaling motifs include not only sequences that are recognized by protein kinases (1), but also those that are recognized by phosphorylation-dependent binding proteins such as 14-3-3 (2). These modular phosphoprotein interacting domains are critical elements in modulating, directing and amplifying intracellular communications. CST has pioneered the development of phospho-motif specific antibodies, which are invaluable tools for probing the complexity of phospho-regulatory pathways.Many critical protein kinases can be regulated by phosphorylation at a specific serine or threonine in a hydrophobic motif (3). For example, Akt, a kinase that regulates cell survival, is activated by phosphorylation at Ser473, a site preceded by Phe at -4 and -1 and followed by Tyr at +1 (4). RSK2, p70 S6 kinase and certain PKC isoforms also contain a similar consensus phosphorylation motif. Phosphorylation of these motifs is required for binding to 3-phosphoinositide-dependent kinase 1 (PDK1) (5-7). Phospho-(Ser/Thr) PDK1 Docking Motif (18A2) Monoclonal Antibody is a powerful tool for the characterization of phosphorylated PDK1 docking motifs and the identification of new proteins with PDK1 docking motifs.

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