

Phospho-PDPK1 (Ser241) Rabbit Polyclonal Antibody

Catalog #: EAB10940

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF, ELISA	63	Human, Mouse, Rat

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB (Western Blotting)	1:500-2000
IHC-P (Immunohistochemistry-Paraffin)	1:50-300
IF (Immunofluorescence)	1:50-300
ELISA (Enzyme-linked Immunosorbent Assay)	1:5000-20000

Product Information

Conjugate	Unconjugate
Specificity	Phospho-PDPK1 (Ser241) Rabbit Polyclonal Antibody detects endogenous levels of PDPK1 only when phosphorylated at Ser241.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks
UniProt ID	O15530
Entrez-Gene Id	5170

Product Description

PDPK1 (3 Phosphoinositide Dependent Protein Kinase 1) phosphorylates AGC kinases. PDPK1 activates conventional PKC and PKC zeta through phosphorylation of critical threonine residues in the activation loop. PDPK1 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 PDPK1 plays in insulin-induced glycogen synthesis and PKC activation, it is a potentially important target for metabolic drug research.

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