

AB-PK760

PDK1-pS241 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase PDK1 (PDPK1)



KINEXUS

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Target Protein

Name Long:	3-phosphoinositide-dependent protein-serine kinase 1
Alias:	3-phosphoinositide dependent protein kinase-1; HPDK1; Kinase PDPK1; MGC20087; MGC35290; MPDK1; PDPK1; PkB kinase; PkB-like; PkB-like 2; Protein kinase B kinase
UniProt ID:	O15530
Sequence Predicted Mass (KDa):	63.152 (556 AA; O15530); 60.396 (530 AA; O15530-3); 58.035 (506 AA; O15530-2); 50.838 (454 AA; O15530-5); 48.201 (429 AA; O15530-4)
Observed SDS-PAGE Mass (KDa):	45-65

Immunogen

Antibody Immunogen Source:	Human PDK1 (PDPK1) sequence peptide Cat. No.: PE-04AKW99
Antibody Immunogen Sequence:	RAN(pS)FVG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R238 to G244; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-241

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	141204
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in HepG2 and HeLa cells; in HeLa cells, phenylarsine oxide (PAO) increases 25 KDa protein.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)