Anti-PDK1 (RABBIT) Antibody - 600-401-411

Code: 600-401-411 **Size:** 100 µg

Product Description: Anti-PDK1 (RABBIT) Antibody - 600-401-411

Concentration: 1.3 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	PDK1
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	3 Phosphoinositide Dependent Protein Kinase 1 antibody, hPDK 1 antibody, PDK 1 antibody, PDPK1 antibody, PkB kinase antibody, PkB kinase like gene 1 antibody, PkB like 1 antibody
Application Note	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band ~60 kDa in size corresponding to human PDK-1 protein by western blotting in the appropriate cell lysate or extract. Although untested, this reagent may be useful for immunohistochemistry and immunoprecipitation. Reactivity in other immunoassays is unknown.
Background	PDK-1 (3-Phosphoinositide-Dependant Protein Kinase-1) phosphorylates AGC kinases. PDK-1 activates conventional PKC and PKCz (zeta) through phosphorylation of critical threonine residues in the activation loop. PDK-1 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 PDK1 plays in insulin-induced glycogen synthesis and PKC activation, it is a potentially important target for metabolic drug research.
Purity And Specificity	This affinity purified antibody is directed against human PDK-1. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with PDK-1 protein from mouse, rat and dog based on 92% homology with the immunizing sequence. Reactivity against homologues from other sources is unknown.
Assay Dilutions	User Optimized
ELISA	1:100,000
Immunohistochemistry	User Optimized
WESTERN BLOT	1:500 - 1:2,000
IHC	User Optimized
OTHER ASSAYS	User Optimized
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal of human PDK-1 protein.

Related Products

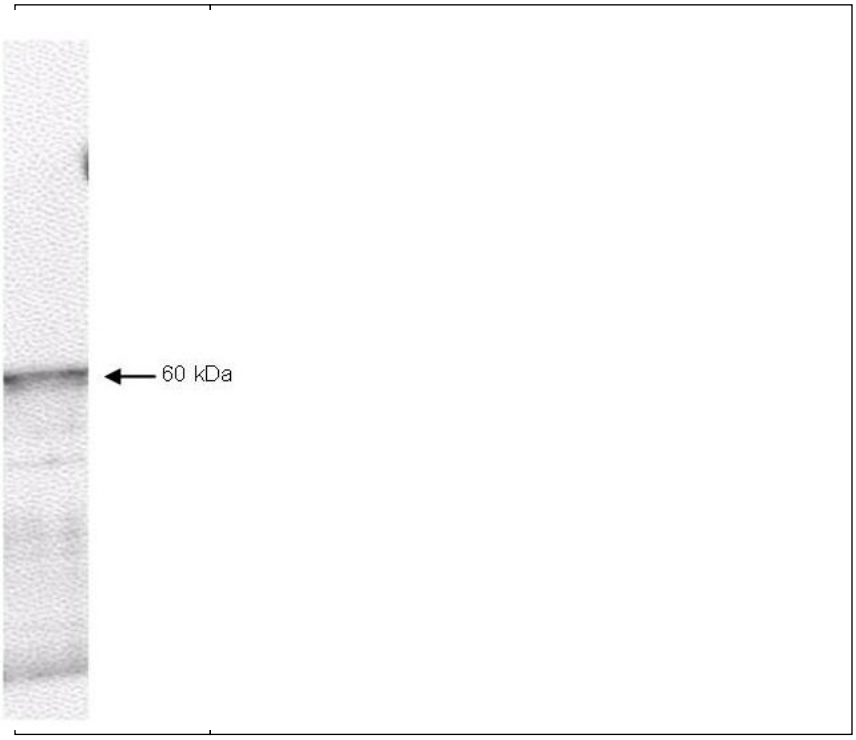
000-000-401	AKT CONTROL PEPTIDE - 000-000-401
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
200-301-269	Anti-AKT pT308 (MOUSE) Monoclonal Antibody - 200-301-269
200-301-401	Anti-AKT (MOUSE) Monoclonal Antibody - 200-301-401

Related Links

UniProtKB	http://www.uniprot.org/uniprot/Q15118
NCBI - NP_002604.1	http://www.ncbi.nlm.nih.gov/protein/NP_002604.1
UniProt - Q15118	http://www.uniprot.org/uniprot/Q15118
Gene ID - 5170	http://www.ncbi.nlm.nih.gov/gene/5170

Images

1 Western blot using Rockland's affinity purified anti-PDK-1 antibody shows detection of myc-tagged human PDK-1 at 60kDa in ~10 µg of a virus infected Sf9 cell lysate (arrow). The nitrocellulose membrane was probed overnight at 4° C with the primary antibody diluted 1:750 in 1% non-fat dry milk. HRP conjugated Goat-anti-Rabbit IgG [H&L] (p/n 611-1302) and chemiluminescent detection is recommended. Other detection systems will yield similar results.



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