

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

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 Application Note

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 terret for metabolic drug research.

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

Anti-AKT (MOUSE) Monoclonal Antibody - 200-301-401 200-301-401

Related Links

UniProtKB http://www.uniprot.org/uniprot/Q15118

NCBI -

NP_002604.1

http://www.ncbi.nlm.nih.gov/protein/NP_002604.1

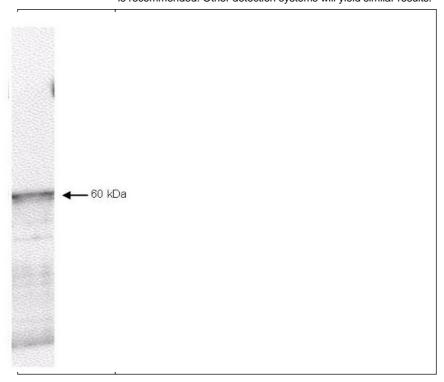
UniProt - Q15118 http://www.uniprot.org/uniprot/Q15118

Gene ID - 5170 http://www.ncbi.nlm.nih.gov/gene/5170

Images

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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.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 data following the data of delivery. The propositive products are beyond our control. days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.