

Datasheet for 600-401-411**PDK1 Antibody****Overview**

Description:	Anti-PDK1 (RABBIT) Antibody - 600-401-411
Item No.:	600-401-411
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-PDK1 antibody, 3 Phosphoinositide Dependent Protein Kinase 1 antibody, hPDK 1 antibody, PDK 1 antibody, PDPK1 antibody, PDK-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PDK1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

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.
Purity/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.
Relevant Links:	• UniProtKB - Q15118 • NCBI - NP_002604.1 • GeneID - 5170

Application Details

Tested Applications:	ELISA, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000
IHC:	User Optimized
WB:	1:500 - 1:2,000

Formulation

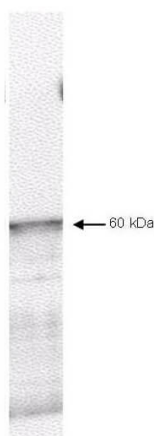
Physical State:	Liquid (sterile filtered)
Concentration:	1.3 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

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 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.