

Datasheet for 600-401-480**PNK Antibody****Overview**

Description:	Anti-PNK (Polynucleotide Kinase) (RABBIT) Antibody - 600-401-480
Item No.:	600-401-480
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Chimpanzee
Host Species:	Rabbit

Product Details

Background:	Mammalian PNK (also known as PNKP, Polynucleotide kinase 3'-phosphatase, DNA 5'-kinase/3'-phosphatase and Polynucleotide kinase) catalyzes the 5' phosphorylation of nucleic acids and can have associated 3' phosphatase activity, predictive of an important function in DNA repair following ionizing radiation or oxidative damage. PNK is a nuclear protein that is expressed in many tissues with highest expression in spleen and testis, and lowest expression in small intestine.
Synonyms:	rabbit anti-PNKP antibody, rabbit anti PNK antibody, rabbit anti-polynucleotide kinase antibody, Bifunctional polynucleotide phosphatase/kinase, Mammalian PNK, PNKP, Polynucleotide kinase 3'-phosphatase, DNA 5'-kinase/3'-phosphatase, Polynucleotide kinase, 2'(3')-polynucleotidase, Polynucleotide 5'-hydroxyl-kinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PNKP
Reactivity:	Human, Chimpanzee
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 an internal region of human PNK protein.
Purity/Specificity:	This affinity purified antibody is directed against human PNK protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest reactivity with this protein from human and chimpanzee based on 100% homology for the immunogen sequence. Expect cross-reactivity with PNK from dog, mouse and rat sources, as only two amino acid residues change within the immunogen sequence (83% positive by BLAST). Cross-reactivity with PNK homologues from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96T60 • NCBI - 31543419 • GenelD - 11284

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 approximately 57 kDa in size corresponding to PNK by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:3,000 - 1:12,000
WB:	1:300 - 1:1,500

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.46 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

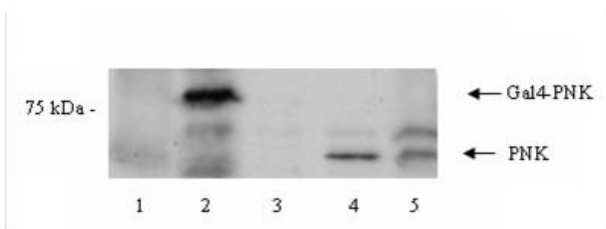
Shipping & Handling

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-PNK antibody shows detection of a 57 kDa band corresponding to human PNK in a Y190 yeast cell lysate (lane 1), Y190 yeast cell lysate + human PNK (Gal DNA BP) (lane 2), EM9 XH Chinese hamster ovary cell lysate (lane 3), EM9 XH Chinese hamster ovary cell lysate + human PNK (lane 4) and a HeLa cell lysate (lane 5). Approximately 10 µg of lysate was run on SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:1000 dilution of anti-PNK antibody incubated for 1 hr in TBST at room temperature. Signal was detected using standard techniques.

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.