

Anti-PNK PNKP Antibody

Catalog Number: A03566

About PNKP

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.

Overview

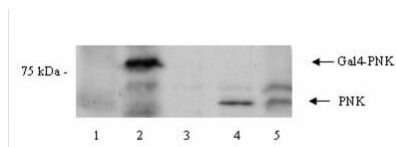
Product Name	Anti-PNK PNKP Antibody
Reactive Species	Human, Chimpanzee
Description	Boster Bio Anti-PNK PNKP Antibody (Catalog # A03566). Tested in ELISA, WB applications. This antibody reacts with Human, Chimpanzee.
Conjugate	HRP
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q96T60

Technical Details

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.
Predicted Reactive Species	Canine
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	1.46 mg/mL by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	ELISA: 1:3,000 - 1:12,000 WB: 1:300 - 1:1,500 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.

Anti-PNK PNKP Antibody (A03566) Images



Western blot using Boster's Affinity Purified anti-PNK antibody shows detection of a 75 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 μ g 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.

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