

Anti-PNK / PNKP Rabbit Monoclonal Antibody
Catalog # ABO16464**Specification**

Anti-PNK / PNKP Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	Q96T60
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-PNK / PNKP Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human.

Anti-PNK / PNKP Rabbit Monoclonal Antibody - Additional Information

Gene ID 11284

Other Names

Bifunctional polynucleotide phosphatase/kinase, DNA 5'-kinase/3'-phosphatase, Polynucleotide kinase-3'-phosphatase, Polynucleotide 3'-phosphatase, 3.1.3.32, 2'(3')-polynucleotidase, Polynucleotide 5'-hydroxyl-kinase, 2.7.1.78, PNKP {ECO:0000303|PubMed:10446192, ECO:0000312|HGNC:HGNC:9154}

Calculated MW

57 kDa KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
IP 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human PNK / PNKP

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-PNK / PNKP Rabbit Monoclonal Antibody - Protein Information

Name PNKP {ECO:0000303|PubMed:10446192, ECO:0000312|HGNC:HGNC:9154}

Function

Plays a key role in the repair of DNA damage, functioning as part of both the non-homologous end-joining (NHEJ) and base excision repair (BER) pathways (PubMed:10446192, PubMed:10446193, PubMed:15385968, PubMed:20852255, PubMed:28453785). Through its two catalytic activities, PNK ensures that DNA termini are compatible with extension and ligation by either removing 3'-phosphates from, or by phosphorylating 5'-hydroxyl groups on, the ribose sugar of the DNA backbone (PubMed:10446192, PubMed:10446193).

Cellular Location

Nucleus. Chromosome. Note=Localizes to site of double-strand breaks.

Tissue Location

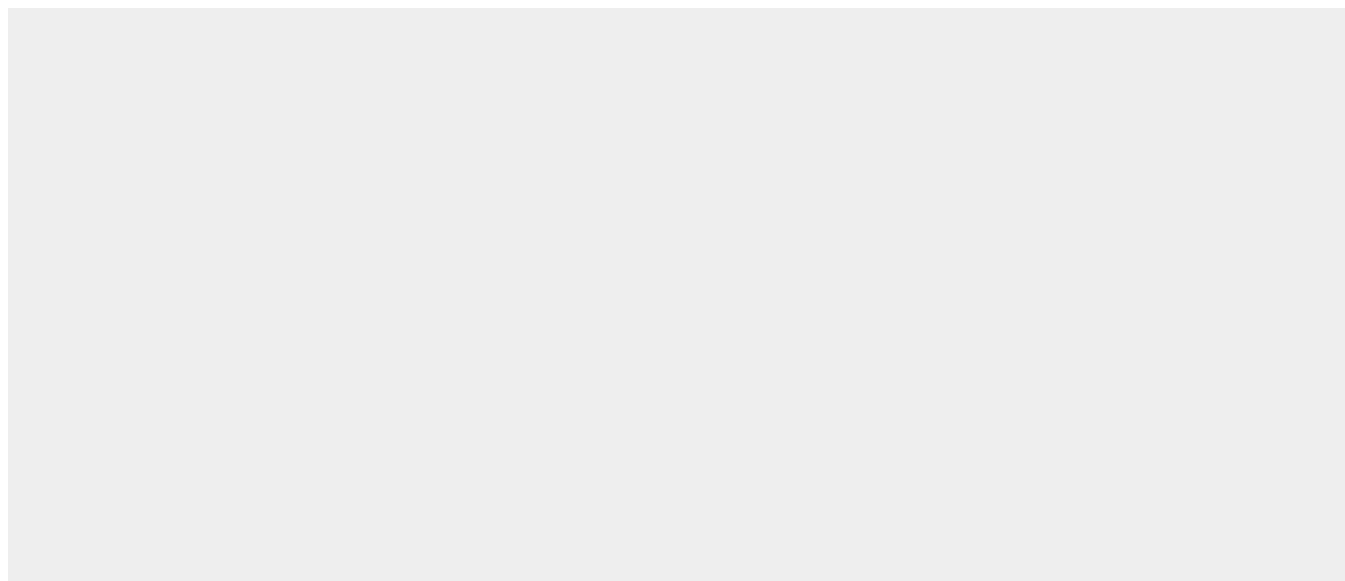
Expressed in many tissues with highest expression in spleen and testis, and lowest expression in small intestine (PubMed:10446192). Expressed in higher amount in pancreas, heart and kidney and at lower levels in brain, lung and liver (PubMed:10446193)

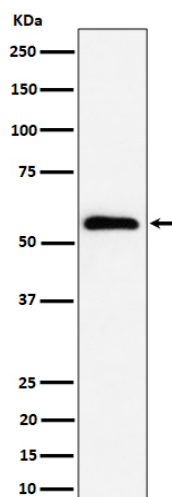
Anti-PNK / PNKP Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PNK / PNKP Rabbit Monoclonal Antibody - Images





Western blot analysis of PNK / PNKP expression in HeLa cell lysate.