

# PNKP Rabbit mAb

Catalog # AP76661

## Product Information

---

<b>Application</b>	WB, IHC-P, IP
<b>Primary Accession</b>	<a href="#">Q96T60</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	57076

## Additional Information

---

<b>Gene ID</b>	11284
<b>Other Names</b>	PNKP
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

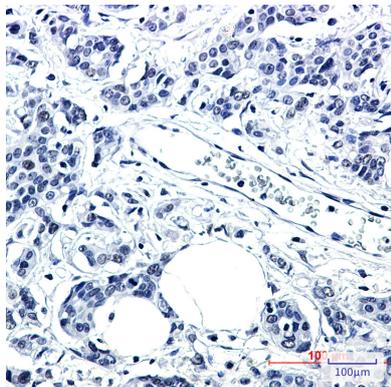
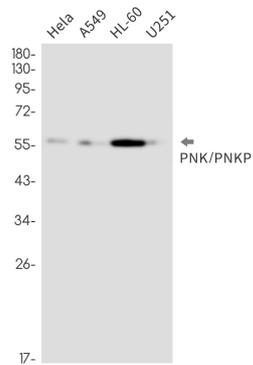
---

<b>Name</b>	PNKP {ECO:0000303 PubMed:10446192, ECO:0000312 HGNC:HGNC:9154}
<b>Function</b>	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: <a href="#">10446192</a> , PubMed: <a href="#">10446193</a> , PubMed: <a href="#">15385968</a> , PubMed: <a href="#">20852255</a> , PubMed: <a href="#">28453785</a> ). 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: <a href="#">10446192</a> , PubMed: <a href="#">10446193</a> ).
<b>Cellular Location</b>	Nucleus. Chromosome. Note=Localizes to site of double-strand breaks.
<b>Tissue Location</b>	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)

## Background

This locus represents a gene involved in DNA repair. In response to ionizing radiation or oxidative damage, the protein encoded by this locus catalyzes 5' phosphorylation and 3' dephosphorylation of nucleic acids. Mutations at this locus have been associated with microcephaly, seizures, and developmental delay.

## Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.