

## PNK1 (Phospho Ser114/Thr118) Rabbit pAb

CatalogNo: YP1447

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC

#### MW

- 57kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human PNK1 (Ser114 and Thr118)

**Specificity** This antibody detects endogenous levels of PNK1 only when phosphorylated at Ser114 or Thr118, and dually phosphorylated at two sites. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PEsQP

## Target Information

**Gene name** PNKP

**Protein Name** PNK1 (Ser114/Thr118)

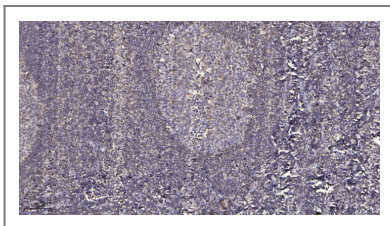
Organism	Gene ID	UniProt ID
Human	<a href="#">11284</a> ;	<a href="#">Q96T60</a> ;
Mouse		<a href="#">Q9JLV6</a> ;

**Cellular Localization** Nucleus . Chromosome . Localizes to site of double-strand breaks. .

**Tissue specificity** 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).

**Function** Catalytic activity:A 3'-phosphopolynucleotide + H<sub>2</sub>O = a polynucleotide + phosphate.,Catalytic activity:ATP + 5'-dephospho-DNA = ADP + 5'-phospho-DNA.,Function:Catalyzes the phosphorylation of DNA at 5'-hydroxyl termini and can dephosphorylate its 3'-phosphate termini. Plays an important function in DNA repair following ionizing radiation or oxidative damage.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:In the N-terminal section; belongs to the DNA 3' phosphatase family.,tissue specificity: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).,

## Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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