

**PNK1 (Phospho Ser114/Thr118) rabbit pAb**

<b>Catalog No :</b>	YP1447
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC
<b>Target :</b>	PNK1
<b>Gene Name :</b>	PNKP
<b>Protein Name :</b>	PNK1 (Ser114/Thr118)
<b>Human Gene Id :</b>	11284
<b>Human Swiss Prot No :</b>	Q96T60
<b>Mouse Swiss Prot No :</b>	Q9JLV6
<b>Immunogen :</b>	Synthesized phospho peptide around human PNK1 (Ser114 and Thr118)
<b>Specificity :</b>	This antibody detects endogenous levels of Human PNK1 (phospho-Ser114 or Thr118)
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	57kD

**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.[provided by RefSeq, Sep 2010],

**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).,

**Subcellular Location :** Nucleus . Chromosome . Localizes to site of double-strand breaks. .

**Expression :** 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).

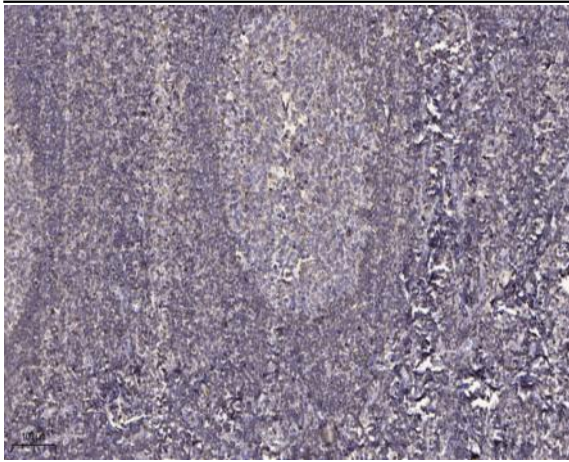
**Sort :** 12868

**No4 :** 1

**Host :** Rabbit

**Modifications :** Phospho

## Products Images



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