

**PDXK Antibody (N-term)**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8616b**

**Specification**

**PDXK Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O00764</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1,k</b>
Calculated MW	<b>35102</b>

**PDXK Antibody (N-term) - Additional Information**

**Gene ID** 8566

**Other Names**

Pyridoxal kinase, 2.7.1.35, Pyridoxine kinase, PDXK, C21orf124, C21orf97, PKH, PNK

**Target/Specificity**

This PDXK antibody is generated from a mouse immunized with a recombinant protein between 1-312 amino acids from human PDXK.

**Dilution**

WB~~1:4000  
IHC-P~~1:25

**Format**

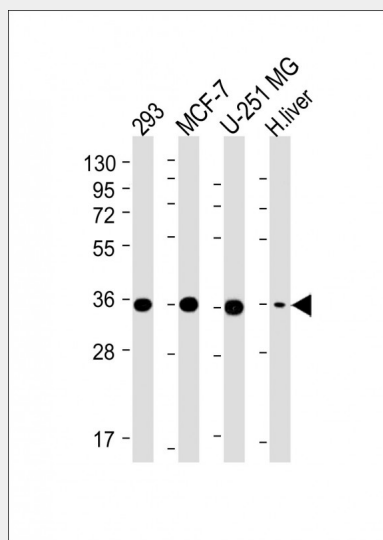
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

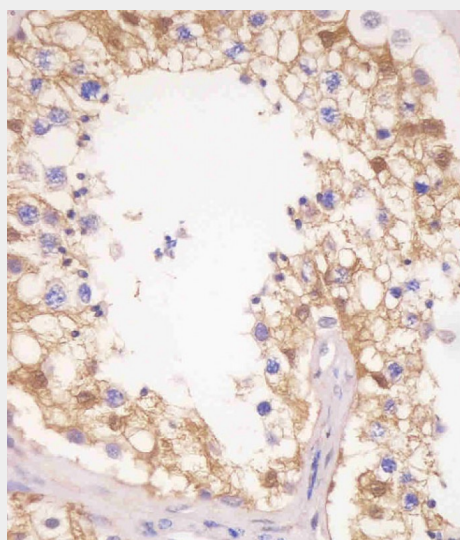
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PDXK Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.



All lanes : Anti-PDXK Antibody (N-term) at 1:4000 dilution Lane 1: 293 whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: U-251 MG whole cell lysate Lane 4: Human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



AM8616b staining PDXK in human testis tissue sections by Immunohistochemistry

## PDXK Antibody (N-term) - Protein Information

**Name** PDXK ([HGNC:8819](#))

### Function

Catalyzes the phosphorylation of the dietary vitamin B6 vitamers pyridoxal (PL), pyridoxine (PN) and pyridoxamine (PM) to form pyridoxal 5'-phosphate (PLP), pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP), respectively (PubMed:[9099727](http://www.uniprot.org/citations/9099727) target="\_blank">9099727</a>, PubMed:[10987144](http://www.uniprot.org/citations/10987144) target="\_blank">10987144</a>, PubMed:[17766369](http://www.uniprot.org/citations/17766369) target="\_blank">17766369</a>, PubMed:[19351586](http://www.uniprot.org/citations/19351586) target="\_blank">19351586</a>, PubMed:[31187503](http://www.uniprot.org/citations/31187503) target="\_blank">31187503</a>) (Probable). PLP is the active form of vitamin B6, and acts as a cofactor for over 140 different enzymatic reactions.

### Cellular Location

Cytoplasm, cytosol.

### Tissue Location

Ubiquitous (PubMed:9099727, PubMed:31187503). Highly expressed in testis (PubMed:9099727)

(IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

## PDXK Antibody (N-term) - Background

Required for synthesis of pyridoxal-5-phosphate from vitamin B6.

## PDXK Antibody (N-term) - References

Hanna M.C., et al. J. Biol. Chem. 272:10756-10760(1997).  
Fang X., et al. Asian J. Androl. 6:83-91(2004).  
Hattori M., et al. Nature 405:311-319(2000).  
Lee H.-S., et al. Mol. Cells 10:452-459(2000).  
Daub H., et al. Mol. Cell 31:438-448(2008).

## PDXK Antibody (N-term) - 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](#)