

**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.

**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 (Probable)

(PubMed:[10987144](#), PubMed:[17766369](#), PubMed:[19351586](#), PubMed:[31187503](#), PubMed:[9099727](#)). 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

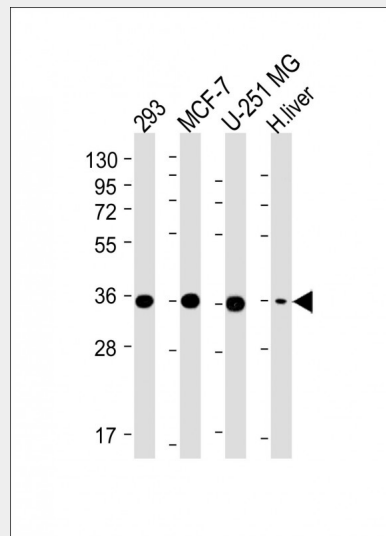
Ubiquitous (PubMed:[31187503](#), PubMed:[9099727](#)). Highly expressed in testis (PubMed:[9099727](#))

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

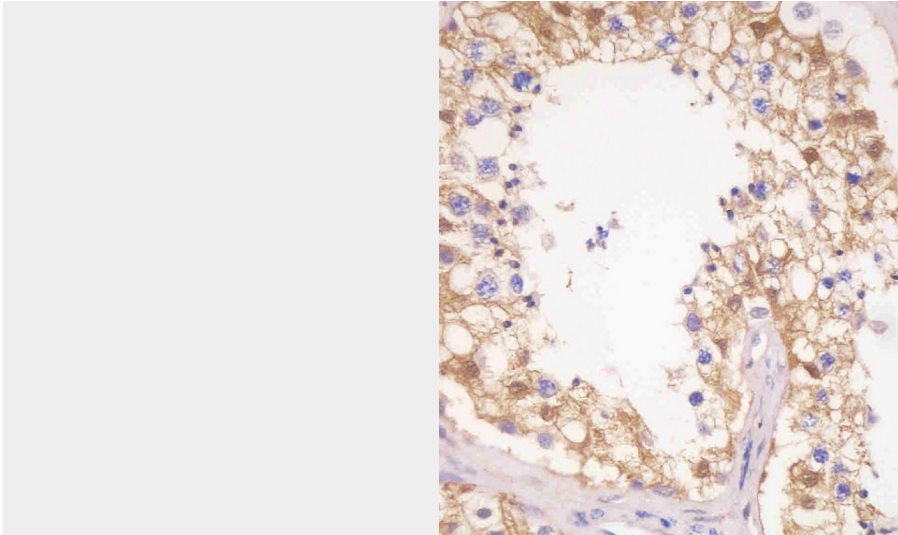
Provided below are standard protocols that you may find useful for product applications.

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

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



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 (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).