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Datasheet for ABIN391110  
**anti-PDXK antibody (N-Term)**

2 Images

Overview

Quantity:	400 µL
Target:	PDXK
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDXK antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PDXK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PDXK.
Clone:	RB5460
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PDXK
Alternative Name:	PDXK ( <a href="#">PDXK Products</a> )

## Target Details

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**Background:** Pyridoxal kinase (PDXK) converts vitamin B6 to pyridoxal-5-phosphate (PLP), an essential cofactor in the intermediate metabolism of amino acids and neurotransmitters. The PDXK gene encodes a 312-amino acid polypeptide, and expression of the cDNA reveals pyridoxal kinase activity. Northern blot analysis revealed that a major 1.5-kb PDXK transcript is expressed in all tissues tested. The expression of PDXK shows circadian oscillations. The expression of Pdxk in mouse liver and brain is regulated by the 3 PAR bZIP transcription factors, Dbp, Hlf, and Tef, which also show circadian oscillations in expression. Mice devoid of all 3 transcription factors show decreased levels of brain PLP, serotonin, and dopamine, and are highly susceptible to frequently lethal generalized spontaneous and audiogenic epilepsies.

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**Molecular Weight:** 35102

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**Gene ID:** 8566

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**NCBI Accession:** [NP\\_003672](#)

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**UniProt:** [O00764](#)

## Application Details

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**Application Notes:** WB: 1:1000. WB: 1:1000

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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**Preservative:** Sodium azide

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**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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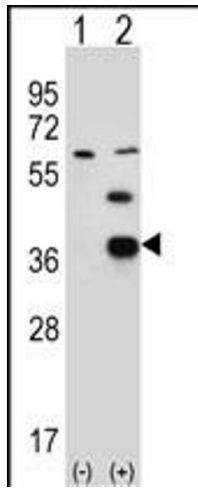
**Storage:** 4 °C,-20 °C

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**Storage Comment:** Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

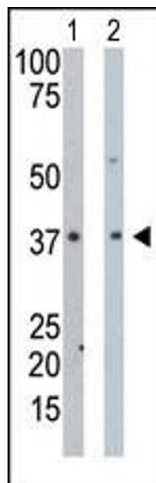
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**Expiry Date:** 6 months



#### Western Blotting

**Image 1.** Western blot analysis of PDXK (arrow) using rabbit polyclonal PDXK Antibody (H13) (ABIN3911110 and ABIN2841241). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PDXK gene.



#### Western Blotting

**Image 2.** The anti-PDXK Pab (ABIN3911110 and ABIN2841241) is used in Western blot to detect PDXK in mouse intestine tissue lysate (Lane 1) and HeLa cell lysate (Lane 2).