

## Datasheet for ABIN631050 **anti-PDK4 antibody (N-Term)**

### 2 Images



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### Overview

Quantity:	100 µL
Target:	PDK4
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	PDK4 antibody was raised using the N terminal of PDK4 corresponding to a region with amino acids MKAARFVLRSGSLNGAGLVPREVEHFSTRYSPSPLSMKQLLDFGSENACE
Specificity:	PDK4 antibody was raised against the N terminal of PDK4
Purification:	Affinity purified

### Target Details

Target:	PDK4
Alternative Name:	PDK4 ( <a href="#">PDK4 Products</a> )
Background:	PDK4 is a member of the PDK/BCKDaK protein kinase family and is a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby

## Target Details

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contributing to the regulation of glucose metabolism.

Molecular Weight: 46 kDa (MW of target protein)

Pathways: [PI3K-Akt Signaling](#), [Hedgehog Signaling](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

## Application Details

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Application Notes: WB: 1 µg/mL, IHC: 4-8 µg/mL  
Optimal conditions should be determined by the investigator.

Comment: PDK4 Blocking Peptide, catalog no. 33R-6121, is also available for use as a blocking control in assays to test for specificity of this PDK4 antibody

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Lyophilized powder. Add distilled water for a 1 mg/mL concentration of PDK4 antibody in PBS

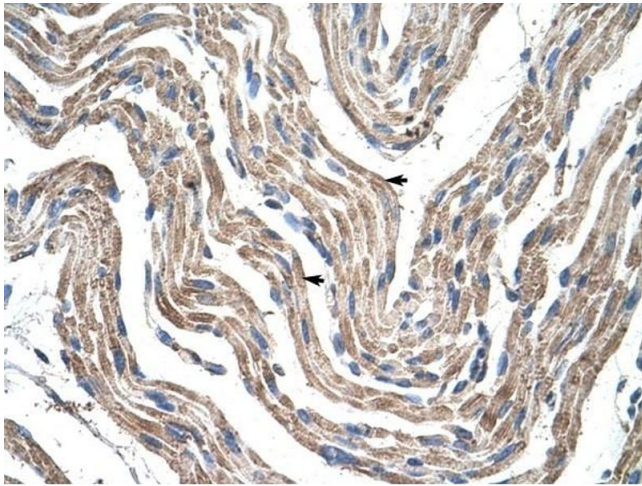
Concentration: Lot specific

Buffer: PBS

Handling Advice: Avoid repeated freeze/thaw cycles.  
Dilute only prior to immediate use.

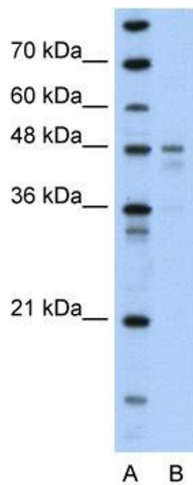
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for short periods. For longer periods of storage, store at -20 °C.



### Immunohistochemistry

**Image 1.** PDK4 antibody was used for immunohistochemistry at a concentration of 4-8 ug/ml to stain Skeletal muscle cells (arrows) in Human Muscle. Magnification is at 400X



### Western Blotting

**Image 2.** PDK4 antibody used at 1 ug/ml to detect target protein.