

## Product datasheet

# Anti-PDK2 antibody [EPR1948Y] ab68164

**KO VALIDATED** Recombinant RabMAB

★★★★★ 2 Abreviews 6 References 3 Images

### Overview

<b>Product name</b>	Anti-PDK2 antibody [EPR1948Y]
<b>Description</b>	Rabbit monoclonal [EPR1948Y] to PDK2
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Pig
<b>Immunogen</b>	Synthetic peptide within Human PDK2 aa 350-450 (C terminal). The exact sequence is proprietary.
<b>Positive control</b>	Human heart tissue lysate, mouse heart tissue lysate, rat tissue lysate and human muscle tissue sections.
<b>General notes</b>	<p><i>Our RabMAB® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies.</i></p> <p>For details on our patents, please refer to <a href="http://www.abcam.com/RabMABPatents">www.abcam.com/RabMABPatents</a></p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol, 0.05% BSA
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR1948Y
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab68164** in the following tested applications.

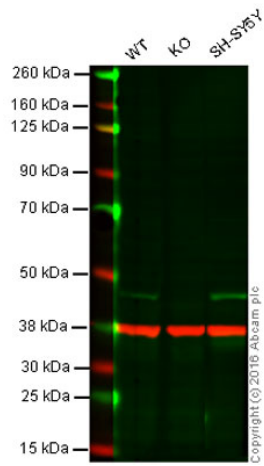
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/500 - 1/2000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
IP		1/30.
IHC-P		1/100 - 1/250.

## Target

<b>Function</b>	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
<b>Tissue specificity</b>	Expressed in many tissues, with the highest level in heart and skeletal muscle, intermediate levels in brain, kidney, pancreas and liver, and low levels in placenta and lung.
<b>Sequence similarities</b>	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



Western blot - Anti-PDK2 antibody [EPR1948Y]  
(ab68164)

**Predicted band size : 46 kDa**

Lane 1: Wild-type HAP1 cell lysate (40 µg)

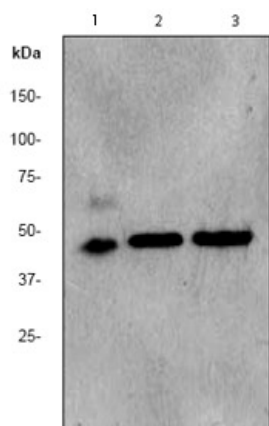
Lane 2: PDK2 knockout HAP1 cell lysate (40 µg)

Lane 3: SHSY5Y cell lysate (40 ug)

Lanes 1 - 3: Merged signal (red and green).

Green - ab68164 observed at 45 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab68164 was shown to specifically react with PDK2 when PDK2 knockout samples were used. Wild-type and PDK2 knockout samples were subjected to SDS-PAGE. Ab68164 and [ab8245](#) (loading control to GAPDH) were diluted at 1/500 and 1/10,000 dilution respectively and incubated overnight at 4C. Blots were developed with IRDye® 800CW Goat anti-Rabbit IgG (H + L) [ab216773](#) and IRDye® 680 Goat anti-Mouse IgG (H + L) [ab216776](#) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PDK2 antibody [EPR1948Y]  
(ab68164)

**All lanes :** Anti-PDK2 antibody [EPR1948Y]

(ab68164) at 1/2000 dilution

**Lane 1 :** human heart tissue lysate

**Lane 2 :** mouse heart tissue lysate

**Lane 3 :** rat tissue lysate

Lysates/proteins at 10 µg per lane.

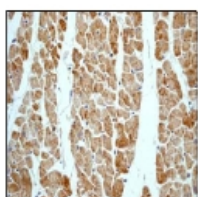
#### Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size :** 46 kDa

**Observed band size :** 46 kDa

Suggested secondary antibody - goat [anti-rabbit HRP](#) (ab6721)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDK2 antibody [EPR1948Y] (ab68164)

ab68164 at 1/100-1/250 dilution staining

PDK2 in human muscle tissue sections.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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