

Product datasheet

Anti-PDK2 antibody [EPR1948Y] ab68164

KO **VALIDATED** Recombinant **RabMAB**

★★★★★ 2 Abreviews 5 References 3 Images

Overview

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

Properties

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

Applications

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

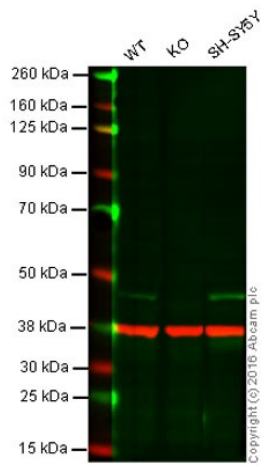
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Function	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
Tissue specificity	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.
Sequence similarities	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
Cellular localization	Mitochondrion matrix.

Anti-PDK2 antibody [EPR1948Y] images



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

Predicted band size : 46 kDa

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

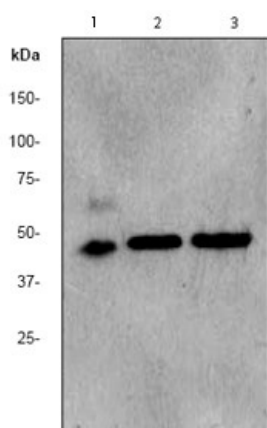
Lane 2: PDK2 knockout HAP1 cell lysate (40 µg)

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.

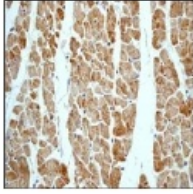
Secondary

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](#))



ab68164 at 1/100-1/250 dilution staining
PDK2 in human muscle tissue sections.

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

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