

Product datasheet

Anti-PDK1 antibody [EPR13009] α b175190

KO VALIDATED Recombinant RabMAb

[1 References](#) [3 Images](#)

Overview

Product name	Anti-PDK1 antibody [EPR13009]
Description	Rabbit monoclonal [EPR13009] to PDK1
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PDK1 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: Q15118
Positive control	LNCaP and Human fetal heart lysate
General notes	This product was previously labelled as Mitochondrial Pyruvate dehydrogenase kinase 1

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR13009
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab175190** in the following tested applications.

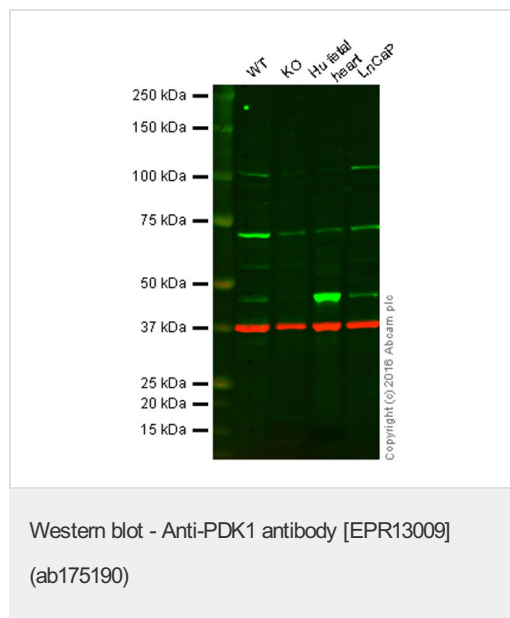
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 49 kDa.
IP		1/10 - 1/100.
Application notes		Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

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 predominantly in the heart.
Sequence similarities	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
Cellular localization	Mitochondrion matrix.

Images



Lane 1: Wild-type HAP1 cell lysate (20 µg)

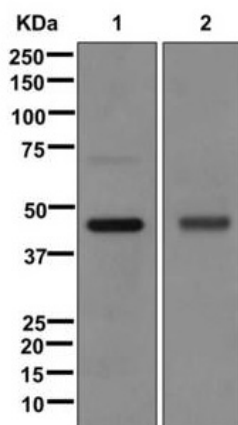
Lane 2: PDK1 knockout HAP1 cell lysate (20 µg)

Lane 3: Human fetal heart lysate (20 µg)

Lane 4: LnCaP cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab175190 observed at 46 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab175190 was shown to specifically recognize PDK1 in wild-type HAP1 cells along with additional cross reactive bands. No band was observed when PDK1 knockout samples were examined. Wild-type and PDK1 knockout samples were subjected to SDS-PAGE. ab175190 and ab8245 (loading control to GAPDH) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-PDK1 antibody [EPR13009] (ab175190) at 1/1000 dilution

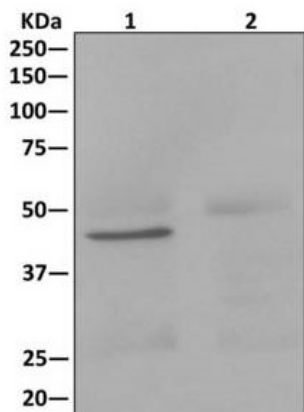
Lane 1 : LNCaP lysates

Lane 2 : Human fetal heart lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 49 kDa

Western blot - Anti-PDK1 antibody [EPR13009] (ab175190)



Western blot analysis on immunoprecipitation pellet from Human fetal heart lysate (lane 1) labeling PDK1 with ab175190 at 1/10 dilution or 1X PBS (lane 2) negative control. HRP-conjugated anti-Rabbit IgG preferentially detecting the non-reduced form of Rabbit IgG.

Immunoprecipitation - Anti-PDK1 antibody [EPR13009] (ab175190)

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