

Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free ab227847

敲除验证 重组 RabMAb

[6 References](#) [7 图像](#)

概述

产品名称	Anti-PDK2抗体[EPR1948Y] - BSA and Azide free
描述	兔单克隆抗体[EPR1948Y] to PDK2 - BSA and Azide free
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	适用于: WB, IHC-P, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse, rat and human heart lysate, rat skeletal lysate, HAPI and SHSY5Y cell lysates; IP: Rat heart lysate; IHC-P: Human bladder carcinoma and cardiac muscle.
常规说明	ab227847 is the carrier-free version of ab68164 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1948Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab227847于以下的经测试应用

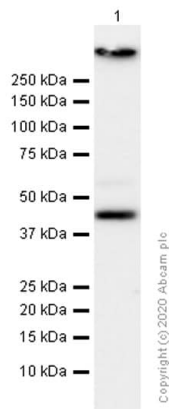
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols.</u>
IP		Use at an assay dependent concentration.

靶标

功能	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
组织特异性	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.
序列相似性	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
细胞定位	Mitochondrion matrix.

图片



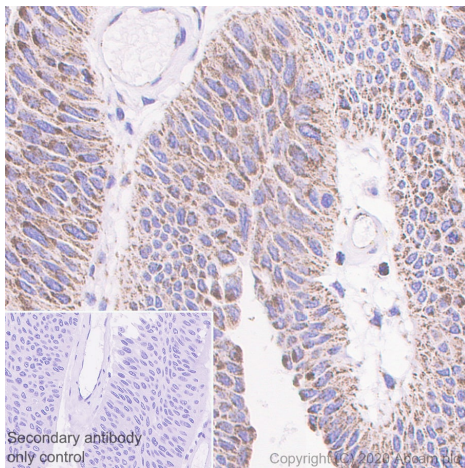
Western blot - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

Anti-PDK2 antibody [EPR1948Y] (**ab68164**) at 1/200 dilution (Purified) + Human heart lysate

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

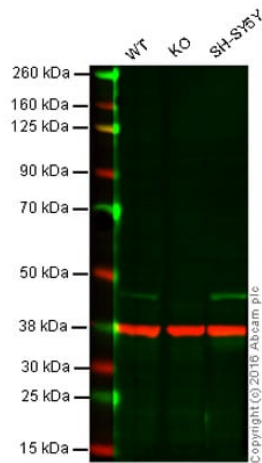
Predicted band size: 46 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

This data was developed using **ab68164**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder carcinoma tissue sections labeling PDK2 with Purified **ab68164** at 1/1000 dilution (0.12 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

This data was generated using **ab68164**, the same antibody clone in a different buffer formulation.

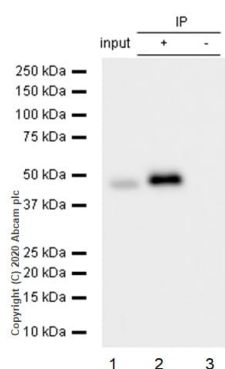
Lane 1: Wild-type HAP1 cell lysate (40 µg)

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

Lane 3: SHS5Y cell lysate (40 µg)

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.



Immunoprecipitation - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

This data was developed using **ab68164**, the same antibody clone in a different buffer formulation.

Purified **ab68164** at 1/20 dilution (0.6µg) immunoprecipitating PDK2 in Rat heart lysate.

Lane 1 (input): Rat heart lysate 10µg

Lane 2 (+): **ab68164** + Rat heart lysate.

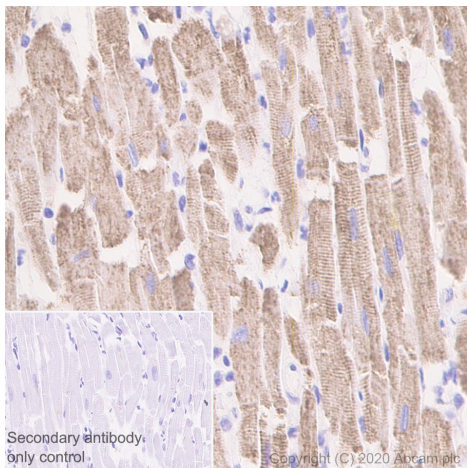
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab68164** in Rat heart lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

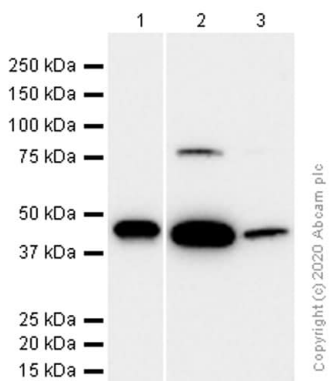
Observed band size: 48 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

This data was developed using **ab68164**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac muscle tissue sections labeling PDK2 with Purified **ab68164** at 1/1000 dilution (0.12 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

All lanes : Anti-PDK2 antibody [EPR1948Y] (**ab68164**) at 1/1000 dilution (Purified)

Lane 1 : Mouse heart lysate

Lane 2 : Rat heart lysate

Lane 3 : Rat skeletal muscle lysate

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 46 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free (ab227847)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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