

Anti-PDK2 antibody [EPR1948Y] ab68164

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-PDK2抗体[EPR1948Y]
描述	兔单克隆抗体[EPR1948Y] to PDK2
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 within Human PDK2 aa 350 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q15119
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	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>
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ab68164于以下的经测试应用

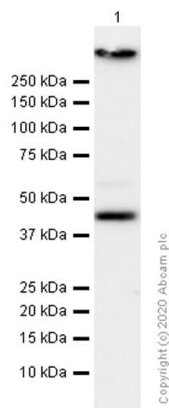
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/200. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa). For unpurified use at 1/500 - 1/2000.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/100 - 1/250.
IP		1/20.

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



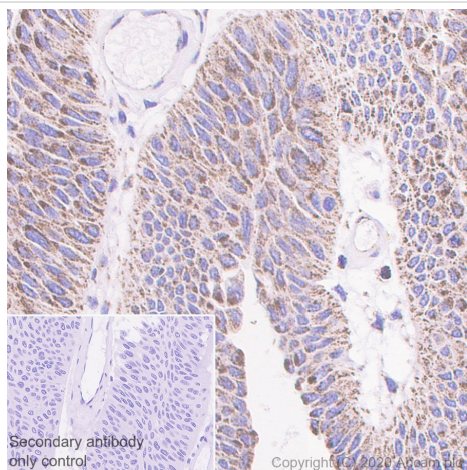
Western blot - Anti-PDK2 antibody [EPR1948Y] (ab68164)

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

Secondary

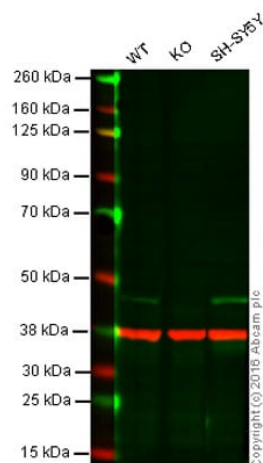
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 46 kDa



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

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]
(ab68164)

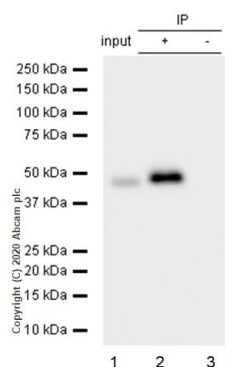
Lane 1: Wild-type HAP1 cell lysate (40 µg)

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

Lane 3: SH-SY5Y 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 in wild-type HAP1 cells. No band was observed when PDK2 knockout samples were examined. 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 4°C. 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] (ab68164)

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.

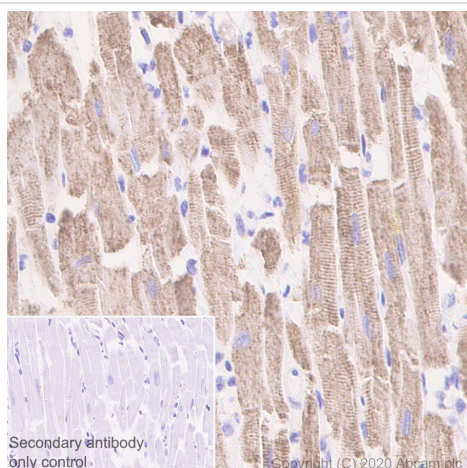
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab68164 in Rat heart lysate.

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

Blocking Buffer and concentration: 5% NFDm/TBST.

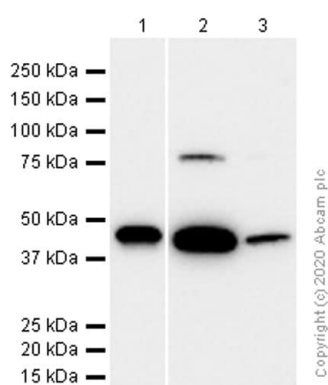
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 48 kDa



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

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] (ab68164)

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] (ab68164)

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

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