

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

KO 評価済 リコンビナント RabMAb

6 References 画像数 7

#### 製品の概要

製品名	Anti-PDK2 antibody [EPR1948Y] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR1948Y] to PDK2 - BSA and Azide free
由来種	Rabbit
特異性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
アプリケーション	<b>適用あり:</b> WB, IHC-P, IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	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.
特記事項	<p>ab227847 is the carrier-free version of <a href="#">ab68164</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR1948Y
アイソタイプ	IgG

## アプリケーション

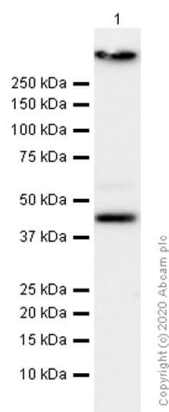
**The Abpromise guarantee**      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab227847の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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 <b><u>IHC antigen retrieval protocols</u></b> .
IP		Use at an assay dependent concentration.

## ターゲット情報

機能	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
組織特異性	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.
配列類似性	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
細胞内局在	Mitochondrion matrix.

## 画像



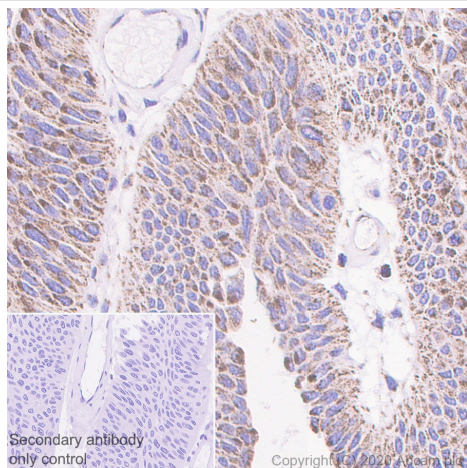
Western blot - Anti-PDK2 antibody [EPR1948Y] -  
BSA and Azide free (ab227847)

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

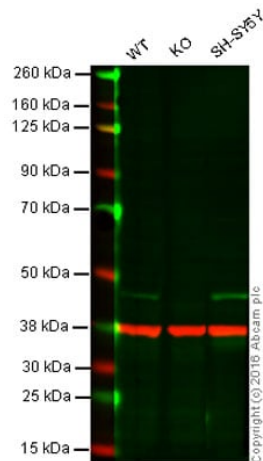
**Predicted band size:** 46 kDa



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.

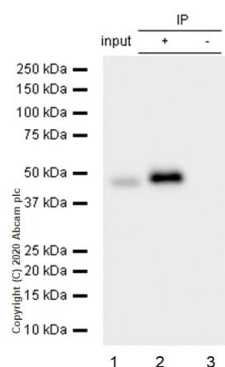
Lane 1: Wild-type HAP1 cell lysate (40 µg)

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

Lane 3: SHSY5Y 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 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] - 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 (0.6 µg) immunoprecipitating PDK2 in Rat heart lysate.

Lane 1 (input): Rat heart lysate 10 µg

Lane 2 (+): [ab68164](#) + Rat heart lysate.

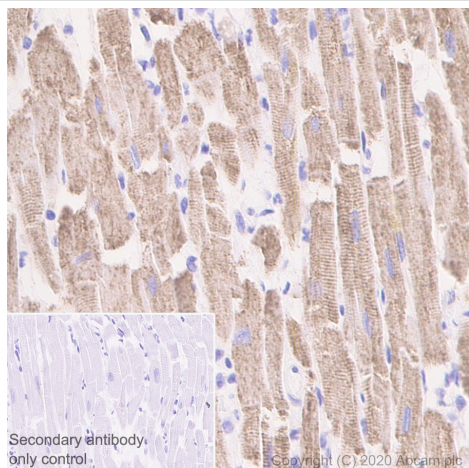
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of [ab68164](#) in Rat heart lysate.

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.

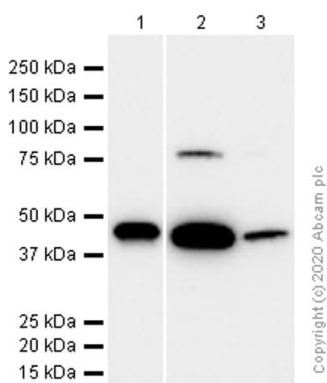
Observed band size: 48 kDa



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**  
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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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