

Anti-PDPK1 antibody [EP569Y] ab52893

敲除验证
重组
RabMAb

[25 References](#)
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概述

产品名称	Anti-PDPK1抗体[EP569Y]
描述	兔单克隆抗体[EP569Y] to PDPK1
宿主	Rabbit
特异性	<p>This antibody detects PDK1 both when phosphorylated and non-phosphorylated on Tyrosine 373 and 376.</p> <p>The mouse, rat and pig recommendation is based on the WB results. We do not guarantee IHC-P for mouse, rat and pig.</p>
经测试应用	<p>适用于: WB, IHC-P</p> <p>不适用于: Flow Cyt, ICC/IF or IP</p>
种属反应性	与反应: Mouse, Rat, Human, Pig
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: PC-12, Rat testis, HEK-293, 22Rv1, PIEC, HeLa, K-562, and F9 lysates. IHC-P: human lung carcinoma and human prostate carcinoma tissue.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>

纯度	Protein A purified
克隆	单克隆
克隆编号	EP569Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab52893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。

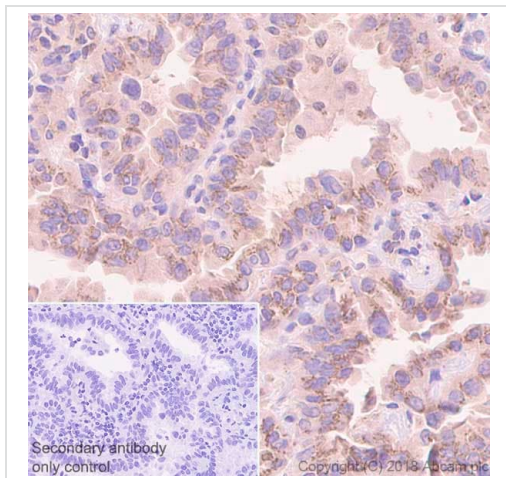
应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 64 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/150. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. The mouse, rat and pig recommendation is based on the WB results. We do not guarantee IHC-P for mouse, rat and pig. See <u>IHC antigen retrieval protocols</u> .

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

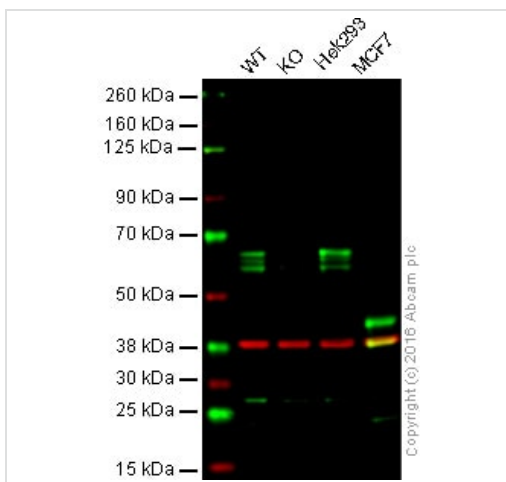
功能	Phosphorylates and activates not only PKB/AKT, but also PKA, PKC-zeta, RPS6KA1 and RPS6KB1. May play a general role in signaling processes and in development (By similarity). Isoform 3 is catalytically inactive.
组织特异性	Appears to be expressed ubiquitously.
序列相似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PDK1 subfamily. Contains 1 PH domain. Contains 1 protein kinase domain.
翻译后修饰	Phosphorylated on tyrosine and serine/threonine. Phosphorylation on Ser-241 in the activation loop is required for full activity. PDK1 itself can autophosphorylate Ser-241, leading to its own activation.
细胞定位	Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDPK1 antibody [EP569Y] (ab52893)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling PDPK1 with Purified ab52893 at 1:150 dilution (2.4 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Purified ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-PDPK1 antibody [EP569Y] (ab52893)

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

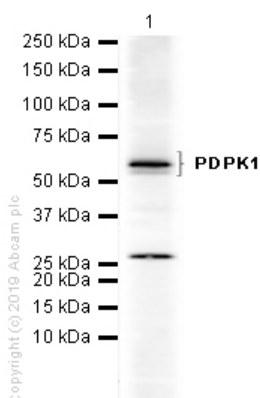
Lane 2: PDPK1 knockout HAP1 cell lysate (20 µg)

Lane 3: HEK293 cell lysate (20 µg)

Lane 4: MCF7 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab52893 observed at 70 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab52893 was shown to recognize PDPK1 when PDPK1 knockout samples were used, along with additional cross-reactive bands. Wild-type and PDPK1 knockout samples were subjected to SDS-PAGE. ab52893 and [ab8245](#) (loading control to GAPDH) were diluted 1/1000 and 1/10 000 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.



Western blot - Anti-PDPK1 antibody [EP569Y]
(ab52893)

Anti-PDPK1 antibody [EP569Y] (ab52893) at 1/1000 dilution
(Purified) + F9 (Mouse embryonal carcinoma epithelial cell) whole
cell lysates at 15 µg

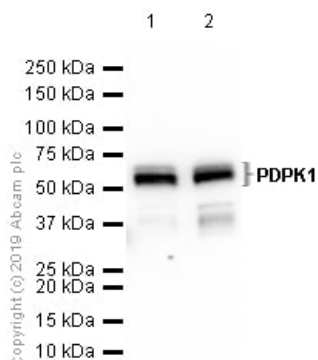
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/5000 dilution

Predicted band size: 63 kDa

Observed band size: 52-65 kDa

The molecular weight observed is consistent with what has been
described in PMID: 30171166



Western blot - Anti-PDPK1 antibody [EP569Y]
(ab52893)

All lanes : Anti-PDPK1 antibody [EP569Y] (ab52893) at 1/1000
dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell)
whole cell lysates

Lane 2 : K-562 (Human chronic myelogenous leukemia
lymphoblast) whole cell lysates

Lysates/proteins at 20 µg per lane.

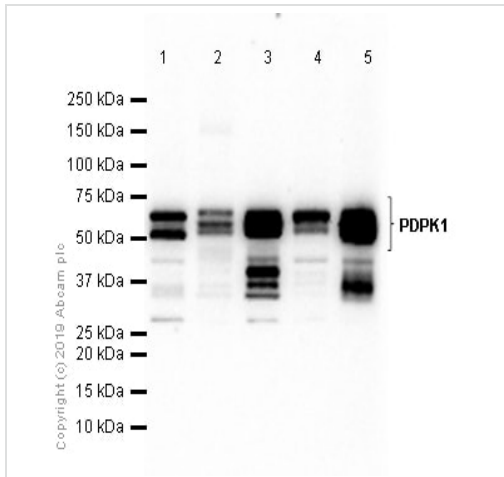
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/5000
dilution

Predicted band size: 63 kDa

Observed band size: 52-65 kDa

The molecular weight observed is consistent with what has been
described in PMID: 30171166



Western blot - Anti-PDPK1 antibody [EP569Y] (ab52893)

All lanes : Anti-PDPK1 antibody [EP569Y] (ab52893) at 1/1000 dilution (Purified)

Lane 1 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lane 2 : Rat testis lysates

Lane 3 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates

Lane 4 : 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysates

Lane 5 : PIEC (PIG iliac artery endothelial cell) whole cell lysates

Lysates/proteins at 20 µg per lane.

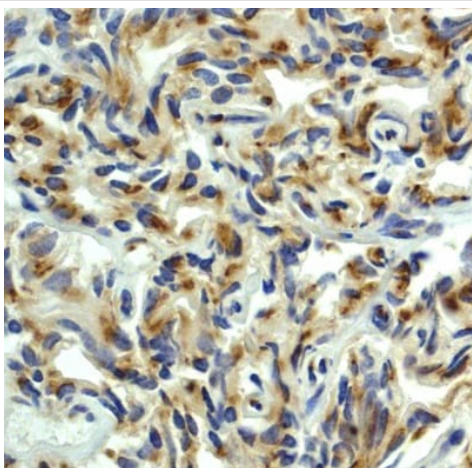
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 63 kDa

Observed band size: 52-65 kDa

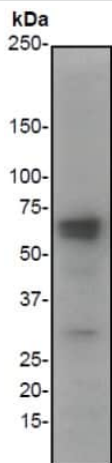
The molecular weight observed is consistent with what has been described in PMID: 30171166



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDPK1 antibody [EP569Y] (ab52893)

Ab52893 (1:100) staining human PDPK1 in human prostate carcinoma tissue by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-PDPK1 antibody [EP569Y] (ab52893) at 1/1000 dilution + 293 cell lysate

Predicted band size: 63 kDa

Observed band size: 63 kDa

Western blot - Anti-PDPK1 antibody [EP569Y] (ab52893)

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-PDPK1 antibody [EP569Y] (ab52893)

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

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