

Product datasheet

Anti-PDPK1 antibody [EP569Y] ab52893

KO 評価済 リコンビナント RabMAb

8 References 画像数 3

製品の概要

製品名	Anti-PDPK1 antibody [EP569Y]
製品の詳細	Rabbit monoclonal [EP569Y] to PDPK1
由来種	Rabbit
特異性	This antibody detects PDK1 both when phosphorylated and non-phosphorylated on Tyrosine 373 and 376.
アプリケーション	<b>適用あり:</b> WB, IHC-P <b>適用なし:</b> Flow Cyt, ICC/IF or IP
種交差性	<b>交差種:</b> Mouse, Rat, Human, Pig
免疫原	Synthetic phospho-peptide corresponding to residues surrounding Tyr373 and Tyr376 of human PDPK1.
ポジティブ・コントロール	293 cell lysate or human prostate carcinoma tissue.
特記事項	

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#)  
This product is a recombinant rabbit monoclonal antibody.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	EP569Y
アイソタイプ	IgG

## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab52893** in the following tested applications.

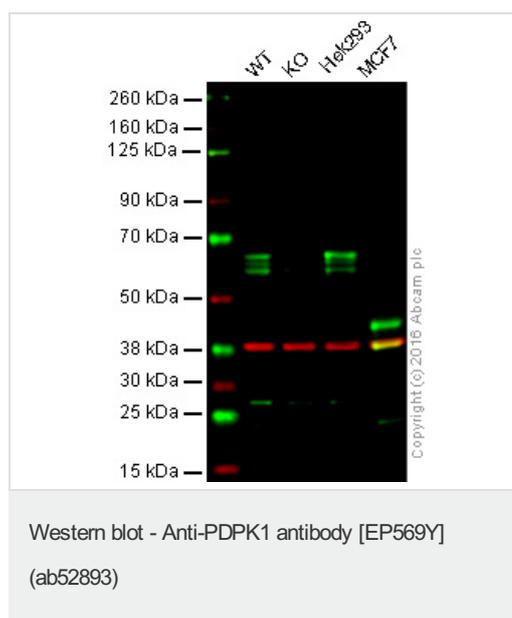
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 64 kDa (predicted molecular weight: 63 kDa).
IHC-P		Use at an assay dependent concentration.
追加情報		Is unsuitable for Flow Cyt, ICC/IF or IP.

## ターゲット情報

機能	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.
組織特異性	Appears to be expressed ubiquitously.
配列類似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PDK1 subfamily. Contains 1 PH domain. Contains 1 protein kinase domain.
翻訳後修飾	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.
細胞内局在	Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane.

## 画像



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

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

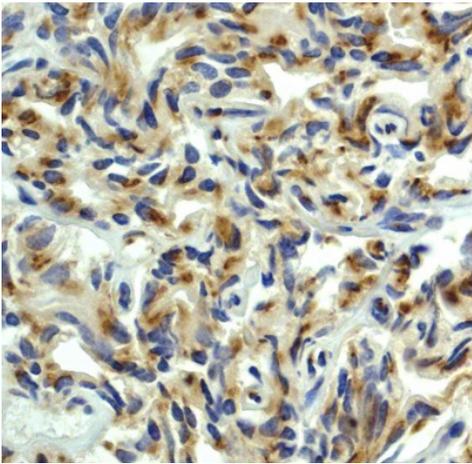
**Lane 3:** HEK293 cell lysate (20 µg)

**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.

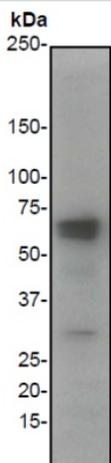
ab52893 was shown to recognize PDPK1 when PDPK1 knockout samples were used, along with additional cross-reactive bands. Wild-type and PDPK1 knockout samples were subjected to SDS-PAGE. ab52893 and [ab8245](#) (loading control to GAPDH) were diluted 1/1000 and 1/10 000 respectively and incubated overnight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



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

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



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)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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