

Product datasheet

Anti-PDPK1 antibody [EP569Y] ab52893

KO 評価済 **リコンビナント** RabMAb

4 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
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	適用あり: WB, IHC-P 適用なし: Flow Cyt, ICC/IF or IP
種交差性	交差種: 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	This product is a recombinant rabbit monoclonal antibody.

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

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	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
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

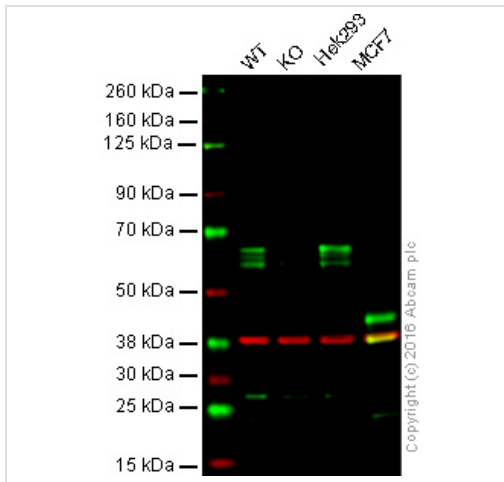
アプリケーション

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



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

Predicted band size : 63 kDa

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

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

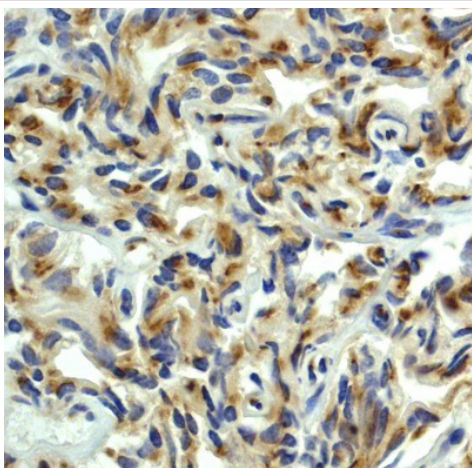
Lane 3: HEK293 cell lysate (20 µg)

Lane 4: MCF7 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green).

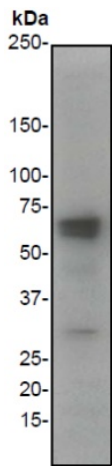
Green - ab52893 observed at 70 kDa. Red - loading control, ab8245, observed at 37 kDa.

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.



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.



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

Predicted band size : 63 kDa

Observed band size : 63 kDa

Western blot - 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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