

Product datasheet

Anti-PAK1 antibody [EP795Y] ab40852

リコンビナント RabMAb®

11 References [画像数 5](#)

製品の概要

製品名	Anti-PAK1 antibody [EP795Y]
製品の詳細	Rabbit monoclonal [EP795Y] to PAK1
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt, IP, WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to residues in the N-terminus of human PAK1 protein.
特記事項	

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® 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. Store at 4°C (stable for up to 12 months). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
精製度	Tissue culture supernatant
特記事項(精製)	This product has not been purified.
ポリ/モノ	モノクローナル
クローン名	EP795Y
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab40852** in the following tested applications.

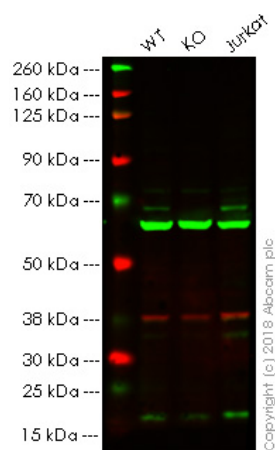
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
Flow Cyt		1/10. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.
WB		1/500. Predicted molecular weight: 66 kDa.
IHC-P		Use at an assay dependent concentration.
ICC/IF		1/50 - 1/100.

ターゲット情報

機能	The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.
配列類似性	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family, STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain.
翻訳後修飾	Autophosphorylated when activated by CDC42/p21 and RAC1.
細胞内局在	Cytoplasm. Cell junction > focal adhesion. Recruited to focal adhesions upon activation.

画像



Western blot - Anti-PAK1 antibody [EP795Y]
(ab40852)

All lanes : Anti-PAK1 antibody [EP795Y]
(ab40852) at 1/500 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : PAK1 knockout HAP1 whole cell lysate

Lane 3 : Jurkat whole cell lysate

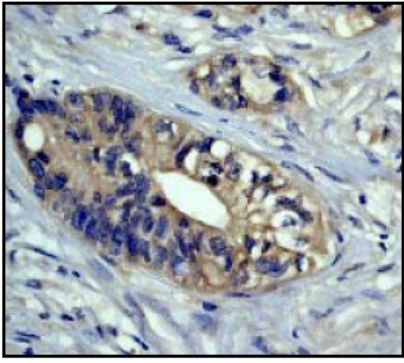
Lysates/proteins at 20 µg per lane.

Predicted band size: 66 kDa

Observed band size: 61 kDa

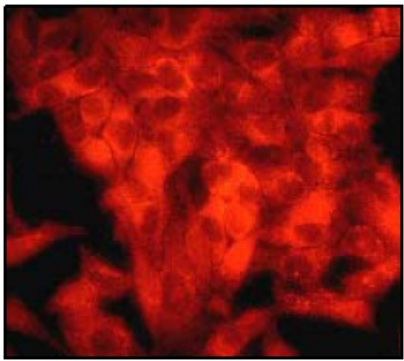
Lanes 1 - 4: Merged signal (red and green).
Green - ab40852 observed at 61 kDa. Red -
loading control, [ab9484](#), observed at 37 kDa.

ab40852 was shown to recognize PAK1 in wild-type HAP1 cells as signal was lost at the expected MW in PAK1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and PAK1 knockout samples were subjected to SDS-PAGE. Ab40852 and [ab9484](#) (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



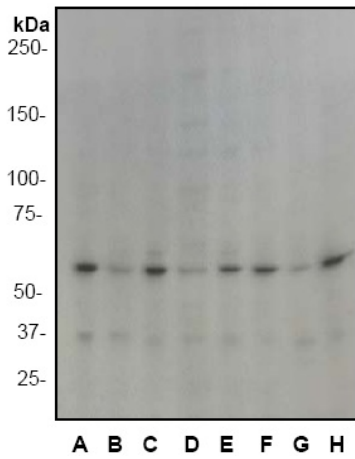
Immunohistochemical analysis of paraffin-embedded human breast carcinoma using ab40852.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAK1 antibody [EP795Y] (ab40852)



Immunofluorescent staining of HeLa cells using ab40852.

Immunocytochemistry/ Immunofluorescence - Anti-PAK1 antibody [EP795Y] (ab40852)



Western blot - Anti-PAK1 antibody [EP795Y]
(ab40852)

Western blot analysis of anti- PAK1 (N-term)
ab40852, dilution 1:500

A: 10ug HeLa

B: 10ug A431

C: 10ug Jurkat

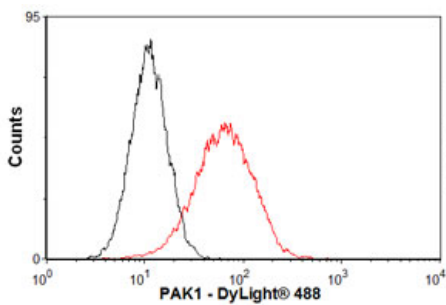
D: 10ug K562

E: 10ug MCF7

F: 10ug Daudi

G: 10ug NIH 3T3

H: 10ug PC12



Flow Cytometry - Anti-PAK1 antibody [EP795Y]
(ab40852)

Overlay histogram showing HeLa cells stained with ab40852 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab40852, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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