

Product datasheet

Anti-Mark3 antibody [EPR633Y] ab52626

KO **評価済** **リコンビナント** RabMAb[®]

★★★★★ 1 Abreviews 2 References 画像数 8

製品の概要

製品名	Anti-Mark3 antibody [EPR633Y]
製品の詳細	Rabbit monoclonal [EPR633Y] to Mark3
由来種	Rabbit
アプリケーション	適用あり: WB, IP, Flow Cyt, ICC/IF 適用なし: IHC-P
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide within Human Mark3 aa 600-700 (C terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: HeLa, K562 and NIH/3T3 cell lysate. ICC/IF: MCF-7 cells. Flow Cyt: HeLa cells. IP: K562 cells.
特記事項	Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR633Y
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab52626** in the following tested applications.

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

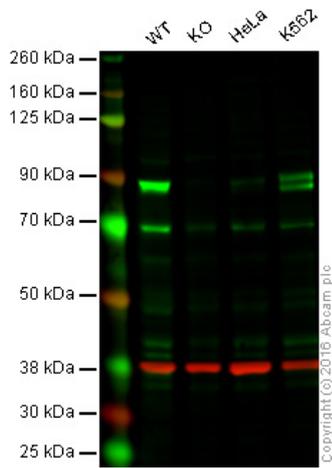
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/2000. Detects a band of approximately 86 kDa.
IP	★★★★★	1/20 - 1/60.
Flow Cyt		1/30 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50 - 1/100.

追加情報 Is unsuitable for IHC-P.

ターゲット情報

機能	Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. Phosphorylates CDC25C on 'Ser-216'.
組織特異性	Ubiquitous.
配列類似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily. Contains 1 KA1 (kinase-associated) domain. Contains 1 protein kinase domain. Contains 1 UBA domain.

画像



Western blot - Anti-Mark3 antibody [EPR633Y] (ab52626)

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

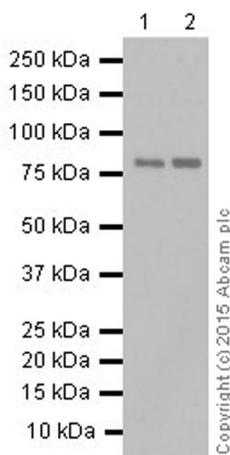
Lane 2: MARK3 knockout HAP1 cell lysate (40 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: K562 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab52626 observed at 85 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab52626 was shown to recognize Mark3 when Mark3 knockout samples were used, along with additional cross-reactive bands. Wild-type and Mark3 knockout samples were subjected to SDS-PAGE. Ab52626 and ab8245 (loading control to GAPDH) were diluted at 1/1000 and 1:10,000 dilution respectively and incubated overnight at 4C. 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 1:10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Mark3 antibody [EPR633Y] (ab52626)

All lanes : Anti-Mark3 antibody [EPR633Y] (ab52626) at 1/2000 dilution (purified)

Lane 1 : K562 whole cell lysate

Lane 2 : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

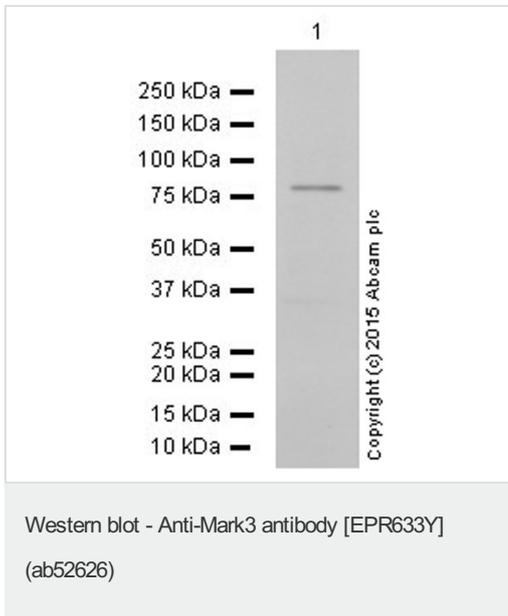
Secondary

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

Observed band size: 86 kDa

[why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST



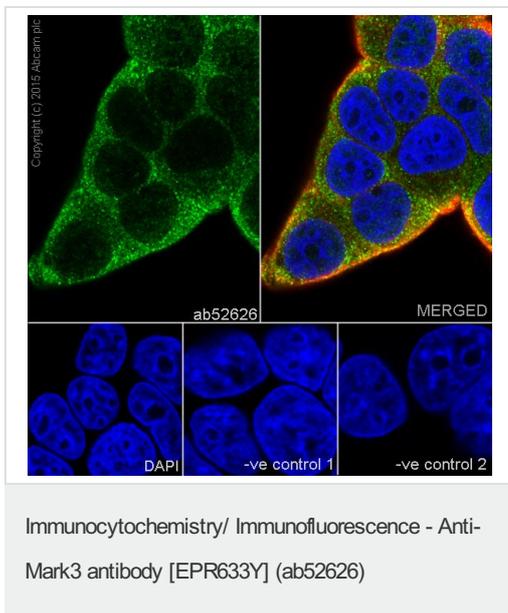
Anti-Mark3 antibody [EPR633Y] (ab52626) at 10 µg (purified) + NIH/3T3 whole cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 86 kDa [why is the actual band size different from the predicted?](#)

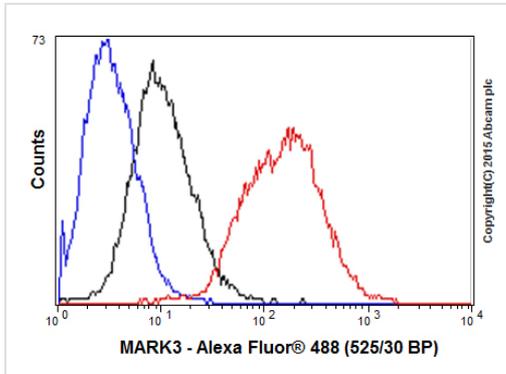
Blocking and dilution buffer: 5% NFDM/TBST



Immunocytochemistry/Immunofluorescence analysis of MCF-7 cells labelling Mark3 with purified ab52626 at a dilution of 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. [ab150077](#), an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. [ab7291](#), a mouse anti-tubulin (1/1000) and [ab150120](#), an Alexa Fluor[®] 594-conjugated goat anti-mouse IgG (1/1000) were also used.

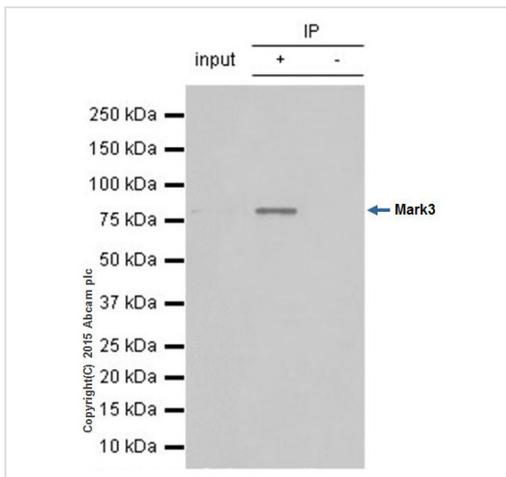
Control 1: primary antibody (1/100) and secondary antibody, [ab150120](#), an Alexa Fluor[®] 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: [ab7291](#) (1/1000) and secondary antibody, [ab150077](#), an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/1000).



Flow Cytometry - Anti-Mark3 antibody [EPR633Y]
(ab52626)

Flow Cytometry analysis of HeLa cells labelling Mark3 with purified ab52626 at a dilution of 1/50 (red). Cells were fixed with 4% paraformaldehyde. An Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunoprecipitation - Anti-Mark3 antibody
[EPR633Y] (ab52626)

ab52626 (purified) at a dilution of 1/20 immunoprecipitating Mark3 in K562 whole cell lysate.

Lane 1 (input): K562 whole cell lysate (10µg)

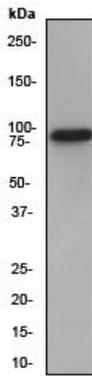
Lane 2 (+): ab52626 + K562 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab52626 in K562 whole cell lysate.

For western blotting, ab131366 VeriBlot for IP (HRP) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.



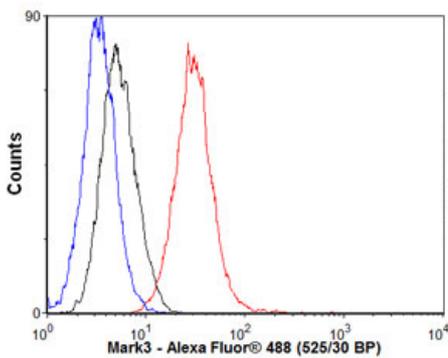
Western blot - Anti-Mark3 antibody [EPR633Y]
(ab52626)

Anti-Mark3 antibody [EPR633Y] (ab52626) at 1/2000 dilution
(unpurified) + HeLa cell lysate at 10 µg

Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Observed band size: 86 kDa [why is the actual band size different from the predicted?](#)



Flow Cytometry - Anti-Mark3 antibody [EPR633Y]
(ab52626)

Overlay histogram showing HeLa cells stained with unpurified ab52626 (red line). The cells were fixed with 80% methanol (5 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 (unpurified ab52626, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor[®] 488 goat anti-rabbit IgG (H+L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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