abcam

Product datasheet

Anti-Cyclin E1 antibody [EPR194] ab133266

KO 評価済 リコンビナント RabMAb

3 Abreviews 17 References 画像数 8

製品の概要

製品名	Anti-Cyclin E1 antibody [EPR194]
製品の詳細	Rabbit monoclonal [EPR194] to Cyclin E1
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, ICC/IF **適用なし:** IHC-P
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa whole cell lysate (**ab150035**), MCF7 cell lysate, JAR cell lysate, K562 cell lysate and Wild-type HAP1 whole cell lysate. ICC/IF: HeLa cells Flow Cyt (Intra): MCF7 cells
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR194
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab133266の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

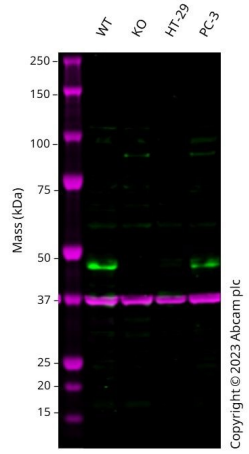
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/150.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 42-50 kDa (predicted molecular weight: 47 kDa).
ICC/IF	★★★★☆ (2)	1/1000. **For unpurified use at 1:500.**

追加情報 Is unsuitable for IHC-P.

ターゲット情報

機能	Essential for the control of the cell cycle at the G1/S (start) transition.
組織特異性	Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.
配列類似性	Belongs to the cyclin family. Cyclin E subfamily.
翻訳後修飾	Phosphorylation of Thr-395 by GSK3 and of Ser-399 by CDK2 accelerates degradation via the ubiquitin proteasome pathway. Phosphorylated upon DNA damage, probably by ATM or ATR.
細胞内局在	Nucleus.

画像



Western blot - Anti-Cyclin E1 antibody [EPR194] (ab133266)

All lanes : Anti-Cyclin E1 antibody [EPR194] (ab133266) at 1/1000 dilution

Lane 1 : Wild-type MCF7 cell lysate
Lane 2 : CCNE1 knockout MCF7 cell lysate
Lane 3 : HT-29 cell lysate
Lane 4 : PC-3 cell lysate

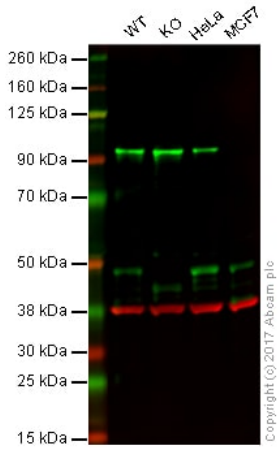
Lysates/proteins at 20 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa
Observed band size: 47 kDa

Western blot: Anti-CCNE1 antibody [EPR194] (ab133266) staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab133266 was shown to bind specifically to CCNE1. A band was observed at 47 kDa in wild-type MCF7 cell lysates with no signal observed at this size in CCNE1 knockout cell line **ab286303** (knockout cell lysate AB300211). To generate this image, wild-type and CCNE1 knockout MCF7 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1% Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.

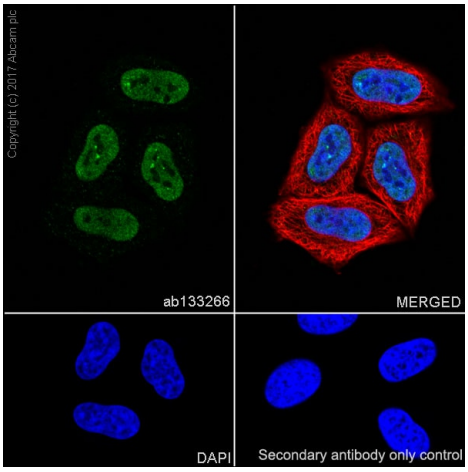


Western blot - Anti-Cyclin E1 antibody [EPR194] (ab133266)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Cyclin E1 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: MCF7 whole cell lysate (20 µg)

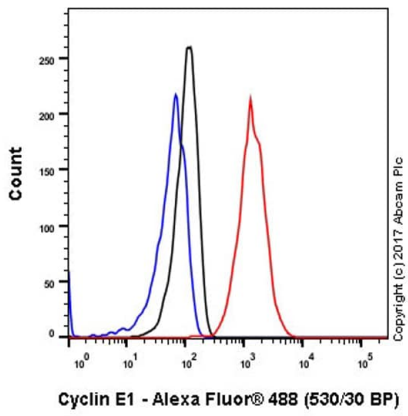
Lanes 1 - 4: Merged signal (red and green). Green - ab133266 observed at 47 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

Unpurified ab133266 was shown to recognize Cyclin E1 in wild-type cells as signal was lost at the expected MW in Cyclin E1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Cyclin E1 knockout samples were subjected to SDS-PAGE. Ab133266 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 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.



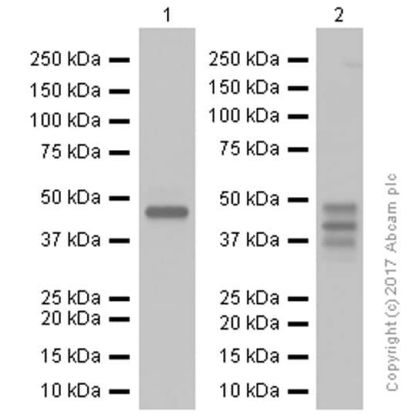
Immunocytochemistry/ Immunofluorescence - Anti-Cyclin E1 antibody [EPR194] (ab133266)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Cyclin E1 with Purified ab133266 at 1:1000 dilution (1.6µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Cyclin E1 antibody [EPR194] (ab133266)

Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Cyclin E1 with purified ab133266 at 1/150 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-Cyclin E1 antibody [EPR194] (ab133266)

All lanes : Anti-Cyclin E1 antibody [EPR194] (ab133266) at 1/10000 dilution (purified)

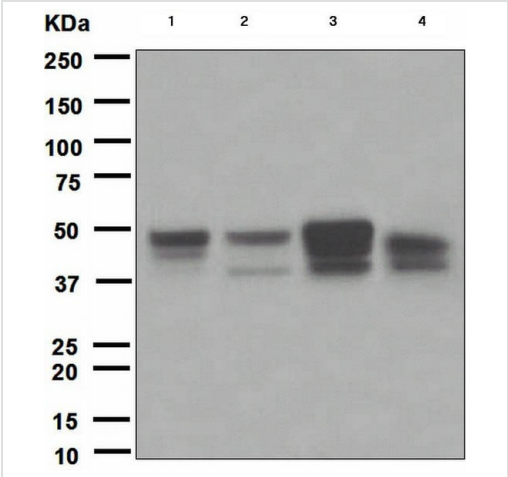
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : JAR (Human placenta choriocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 15 µg per lane.

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

Predicted band size: 47 kDa

Blocking and diluting buffer : 5% NFDM/TBST



Western blot - Anti-Cyclin E1 antibody [EPR194] (ab133266)

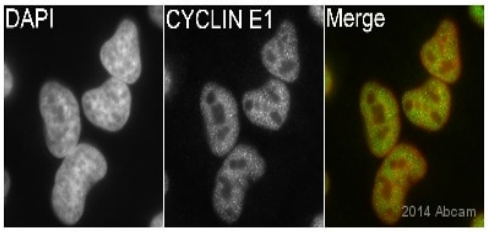
All lanes : Anti-Cyclin E1 antibody [EPR194] (ab133266) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate
Lane 2 : MCF7 cell lysate
Lane 3 : JAR cell lysate
Lane 4 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

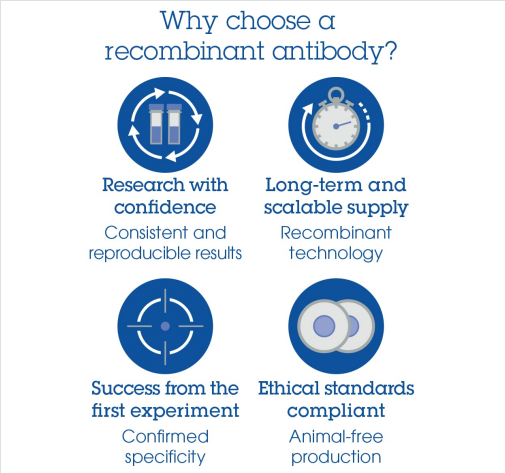
Predicted band size: 47 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin E1 antibody [EPR194] (ab133266)

This image is courtesy of an Abreview submitted by Kirk McManus

Unpurified ab133266 staining Cyclin E1 in HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and permeabilized with 0.5% Triton X-100 in PBS. Samples were incubated with primary antibody (1/500 in PBS) for 1 hour at 22°C. **ab150081**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Counterstained with DAPI.



Anti-Cyclin E1 antibody [EPR194] (ab133266)

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