

### Anti-Cdk6 antibody [EPR4515] - BSA and Azide free ab222395

KO 評価済 リコンビナント RabMAb

★★★★★ [2 Abreviews](#) [6 References](#) [画像数 9](#)

#### 製品の概要

製品名	Anti-Cdk6 antibody [EPR4515] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR4515] to Cdk6 - BSA and Azide free
由来種	Rabbit
特異性	Based on the immunogen sequence, we do not expect the antibody to cross-react with other CDK family members. No cross-reactivity testing has been performed.
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P <b>適用なし:</b> IP
種交差性	<b>交差種:</b> 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: Jurkat, K562, HeLa, HAP1, and 293T cell lysates. IHC-P: Human tonsil tissue. ICC/IF: HeLa and HAP1 cells.
特記事項	ab222395 is the carrier-free version of <a href="#">ab124821</a> .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

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](#).

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. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4515
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ab222395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確認ください。

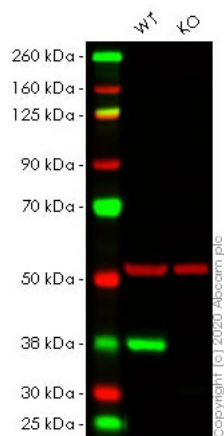
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration. <b>ab199376</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

**追加情報**      Is unsuitable for IP.

## ターゲット情報

機能	Probably involved in the control of the cell cycle. Interacts with D-type G1 cyclins.
配列類似性	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.

## 画像



Western blot - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

**All lanes :** Anti-Cdk6 antibody [EPR4515] ([ab124821](#)) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** CDK6 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

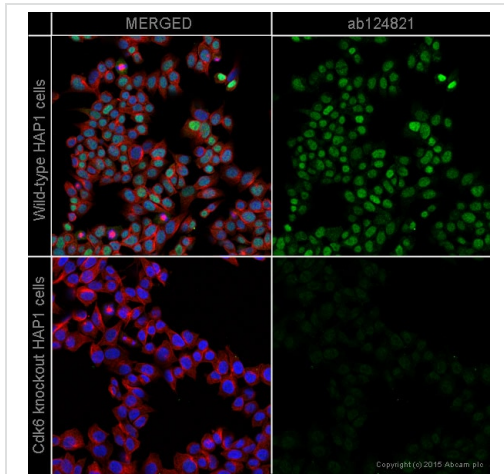
**Predicted band size:** 37 kDa

**Observed band size:** 37 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab124821](#)).

**Lanes 1- 2:** Merged signal (red and green). Green - [ab124821](#) observed at 37 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) observed at 50 kDa.

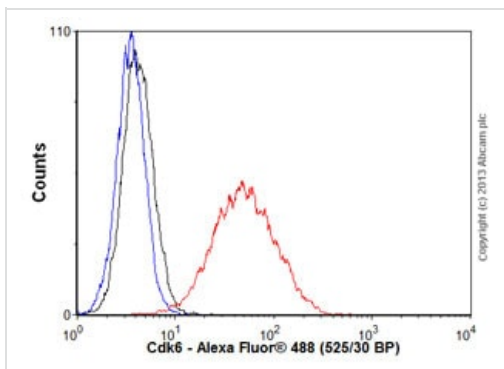
[ab124821](#) was shown to react with Cdk6 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line [ab266059](#) (knockout cell lysate [ab257088](#)) was used. Wild-type HeLa and CDK6 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. [ab124821](#) and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

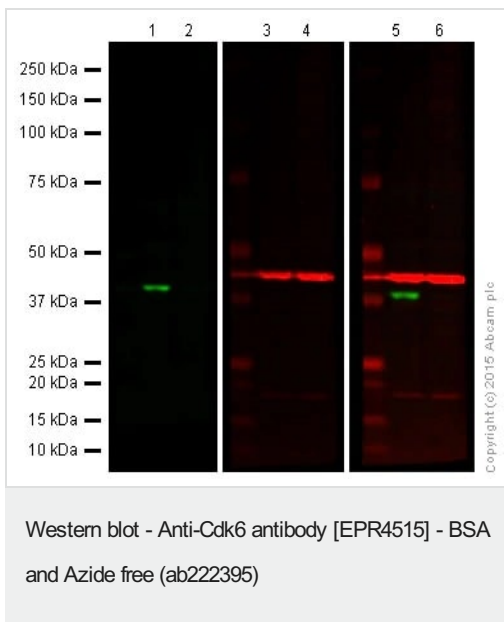
**ab124821** staining Cdk6 in wild-type HAP1 cells (top panel) and Cdk6 knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab124821** at 1/500 dilution and **ab195889** at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124821**).



Flow Cytometry (Intracellular) - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

Overlay histogram showing HeLa cells stained with **ab124821** (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 (**ab124821**, 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) (0.1µg/1x10<sup>6</sup> 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. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124821**).



**Lanes 1-2 :** Anti-Cdk6 antibody [EPR4515] ([ab124821](#)) at 1/10000 dilution

**Lanes 3-4 :** Anti-beta Actin antibody [mAbcam 8226] - Loading Control ([ab8226](#)) at 1/1000 dilution

**Lanes 1 & 3 & 5 :** Wild-type HAP1 cell lysate

**Lanes 2 & 4 & 6 :** CDK6 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

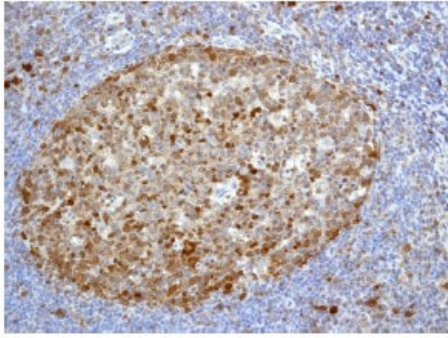
**Predicted band size:** 37 kDa

**Lanes 1 and 2:** Green signal from target - [ab124821](#) observed at 37 kDa

**Lanes 3 and 4:** Red signal from loading control - [ab8226](#) observed at 42 kDa

**Lanes 5 and 6:** Merged (red and green) signal

[ab124821](#) was shown to specifically react with CDK6 when CDK6 knockout samples were used. Wild-type and CDK6 knockout samples were subjected to SDS-PAGE. [ab124821](#) and [ab8226](#) (loading control to beta actin) were diluted at 1/10 000 and 1/1000 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 1/10,000 dilution for 1 h at room temperature before imaging.

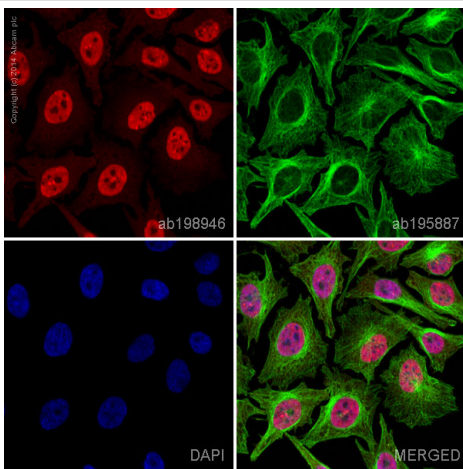


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk6 antibody  
[EPR4515] - BSA and Azide free (ab222395)

**ab124821** at 1/100 dilution, staining Cdk6 in formalin-fixed paraffin-embedded human tonsil tissue by immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124821**).



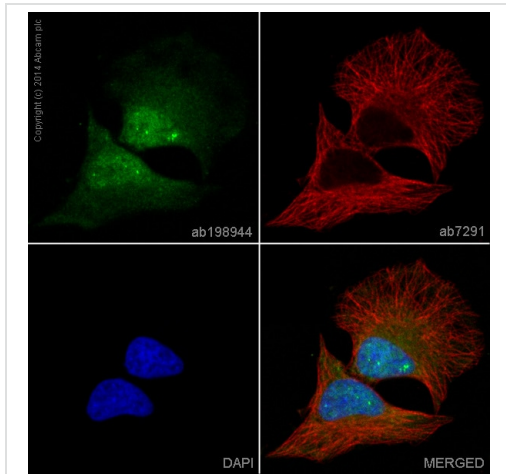
Immunocytochemistry/ Immunofluorescence - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

Clone EPR4515 (ab222395) has been successfully conjugated by Abcam. This image was generated using Anti-Cdk6 antibody [EPR4515] (Alexa Fluor® 647). Please refer to **ab198946** for protocol details.

**ab198946** staining Cdk6 in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab198946** at 1/100 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in HeLa cells fixed with 100% methanol (5min).

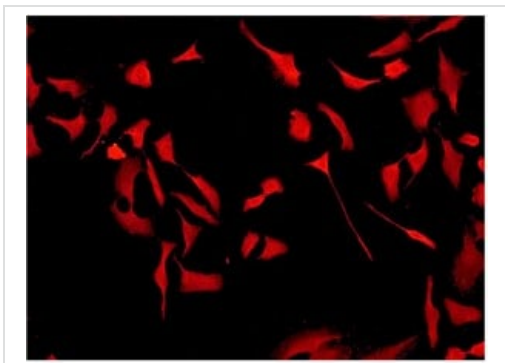


Immunocytochemistry/ Immunofluorescence - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

Clone EPR4515 (ab222395) has been successfully conjugated by Abcam. This image was generated using Anti-Cdk6 antibody [EPR4515] (Alexa Fluor® 488). Please refer to [ab198944](#) for protocol details.

[ab198944](#) staining Cdk6 in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab198944](#) at 1/100 dilution (shown in green) and [ab7291](#) (Mouse monoclonal [DM1A] to alpha Tubulin) at 1µg/ml. This was followed by an incubation at room temperature for 1h with [ab150120](#), Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed, at 1µg/ml (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Anti-Cdk6 antibody [EPR4515] - BSA and Azide free (ab222395)

ICC/IF image of [ab124821](#) at 1/100 dilution, staining Cdk6 in HeLa cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab124821](#)).

### Why choose a recombinant antibody?



**Research with confidence**  
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Recombinant technology



**Success from the first experiment**  
Confirmed specificity



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Anti-Cdk6 antibody [EPR4515] - BSA and Azide free  
(ab222395)

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