

### Anti-MCM2 antibody [EPR4120] ab108935

重组 RabMAb

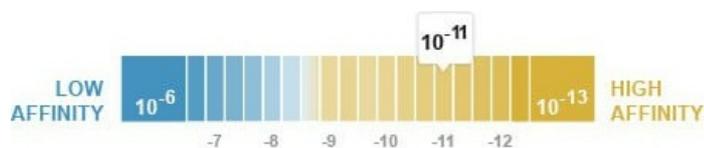
[19 References](#) [16 图像](#)

#### 概述

<b>产品名称</b>	Anti-MCM2抗体[EPR4120]
<b>描述</b>	兔单克隆抗体[EPR4120] to MCM2
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IHC-P, ICC/IF, Flow Cyt (Intra)
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human
<b>免疫原</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>阳性对照</b>	WB: MCF-7, Ramos, SW480, Molt-4, Jurkat and HeLa whole cell lysate ( <a href="#">ab150035</a> ) IHC-P: Human squamous cell cervical carcinoma tissue and Human tonsil tissue IF: HeLa cells
<b>常规说明</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>解离常数 (K<sub>D</sub>)</b>	K <sub>D</sub> = 5.80 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>存储溶液</b>	pH: 7.20 Preservative: 0.01% Sodium azide
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Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4120
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab108935于以下的经测试应用

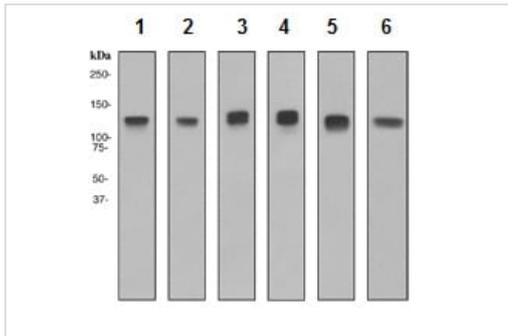
“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 102 kDa. <b>For unpurified, use 1/1000 - 1/5000.</b>
IHC-P		1/200. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. <b>For unpurified, use 1/100.</b>
ICC/IF		1/1000. <b>For unpurified, use 1/250.</b>
Flow Cyt (Intra)		Use at an assay dependent concentration.

## 靶标

功能	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for the entry in S phase and for cell division.
序列相似性	Belongs to the MCM family. Contains 1 MCM domain.
翻译后修饰	Phosphorylated on Ser-108 by ATR in proliferating cells. Ser-108 proliferation is increased by genotoxic agents. Ser-40 is mediated by the CDC7-DBF4 and CDC7-DBF4B complexes, while Ser-53 phosphorylation is only mediated by the CDC7-DBF4 complex. Phosphorylation by the CDC7-DBF4 complex during G1/S phase is required for the initiation of DNA replication.
细胞定位	Nucleus.

## 图片



Western blot - Anti-MCM2 antibody [EPR4120] (ab108935)

**All lanes** : Anti-MCM2 antibody [EPR4120] (ab108935) at 1/10000 dilution (unpurified)

**Lane 1** : MCF-7 cell lysate

**Lane 2** : Ramos cell lysate

**Lane 3** : SW480 cell lysate

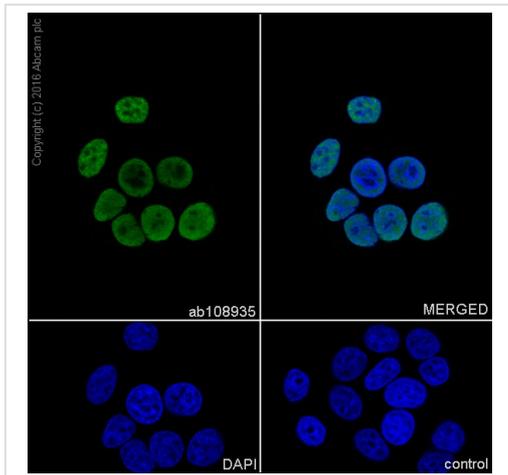
**Lane 4** : Molt-4 cell lysate

**Lane 5** : Jurkat cell lysate

**Lane 6** : HeLa cell lysate

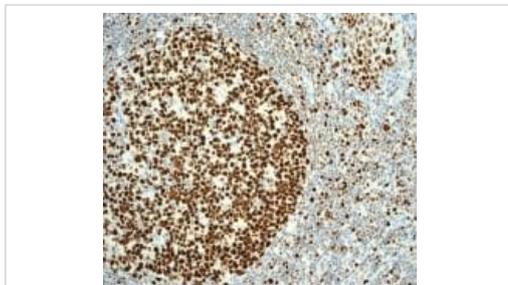
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 102 kDa



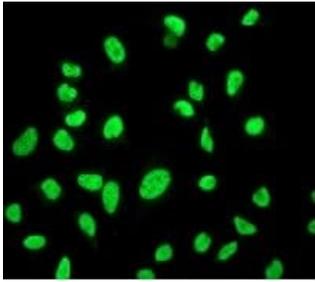
Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunocytochemistry/Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma cell line) labeling MCM2 with purified ab108935 at 1/1000. Cells were fixed with 4% PFA and permeabilized with 0.1% triton X-100. **ab150077** Goat anti rabbit IgG (Alexa Fluor® 488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



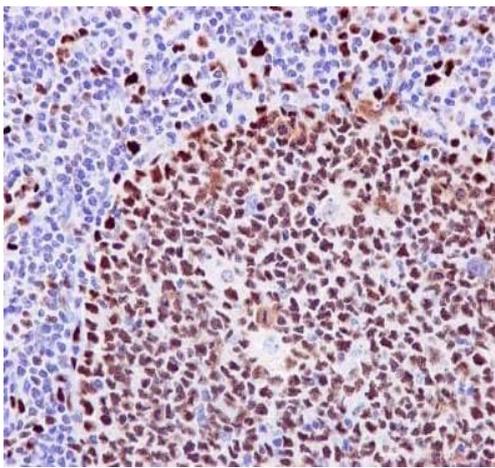
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunohistochemical staining of MCM2 in paraffin-embedded human tonsil tissue with unpurified **ab108395**, at a 1/250 dilution.



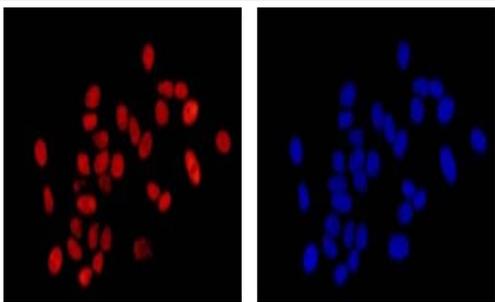
Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [EPR4120] (ab108935)

Unpurified ab108935, at a 1/100 dilution, staining MCM2 in HeLa cells.



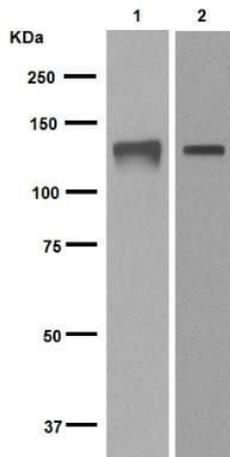
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunohistochemical staining of paraffin embedded human tonsil with purified ab108935 at a working dilution of 1 in 200. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.



Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunofluorescent staining of MCF7 cells (fixed with 4% PFA) with purified ab108935 at a dilution of 1/600. An Alexa Fluor<sup>®</sup> 555 goat anti-rabbit antibody was used as the secondary at a dilution of 1/200. The panel on the right shows the DAPI counter-staining.



Western blot - Anti-MCM2 antibody [EPR4120] (ab108935)

**All lanes** : Anti-MCM2 antibody [EPR4120] (ab108935) at 1/8500 dilution (purified)

**Lane 1** : HeLa cell lysate

**Lane 2** : Mouse kidney tissue lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

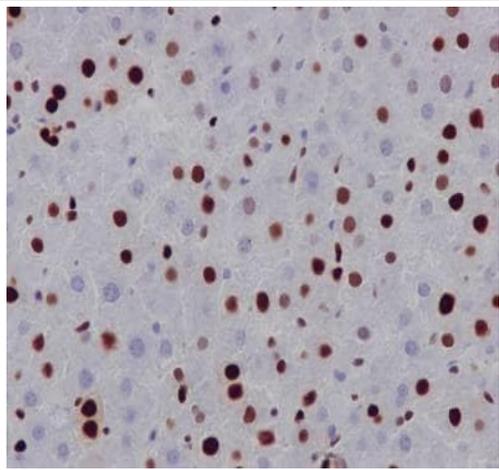
**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 102 kDa

**Observed band size:** 125 kDa

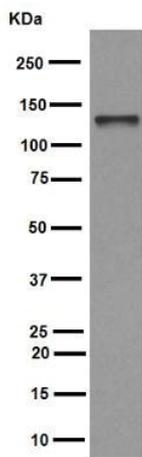
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunohistochemical staining of paraffin embedded rat liver with purified ab108935 at a working dilution of 1 in 200. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.



Western blot - Anti-MCM2 antibody [EPR4120] (ab108935)

Anti-MCM2 antibody [EPR4120] (ab108935) at 1/8500 dilution (purified) + Jurkat cell lysate at 10 µg

**Secondary**

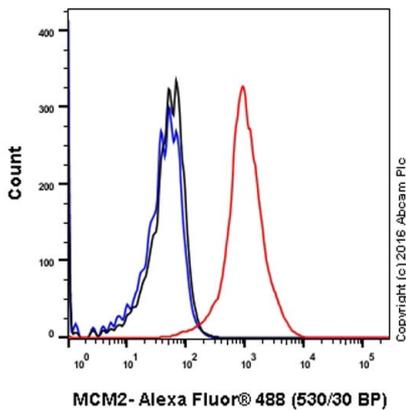
HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 102 kDa

**Observed band size:** 125 kDa

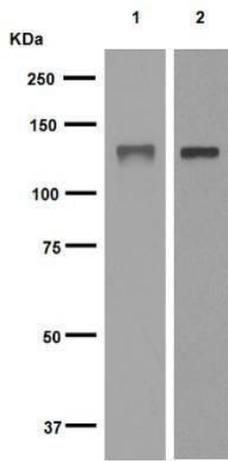
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Flow Cytometry (Intracellular) - Anti-MCM2 antibody [EPR4120] (ab108935)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling MCM2 with unpurified ab108935 at 1/160 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Western blot - Anti-MCM2 antibody [EPR4120] (ab108935)

**All lanes** : Anti-MCM2 antibody [EPR4120] (ab108935) at 1/5000 dilution (unpurified)

**Lane 1** : HeLa cell lysate

**Lane 2** : Mouse kidney tissue lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

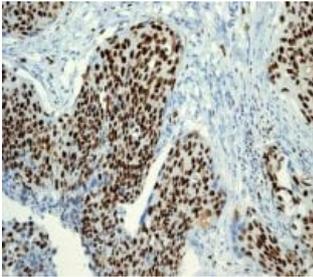
**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 102 kDa

**Observed band size:** 125 kDa

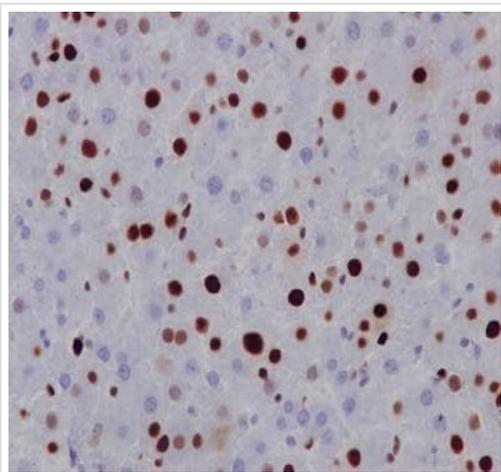
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



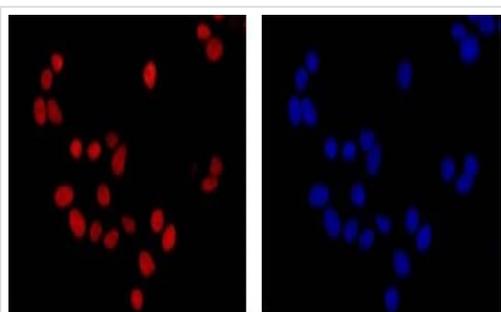
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunohistochemical staining of MCM2 in paraffin-embedded human squamous cell cervical carcinoma tissue with unpurified **ab108395**, at a 1/250 dilution.



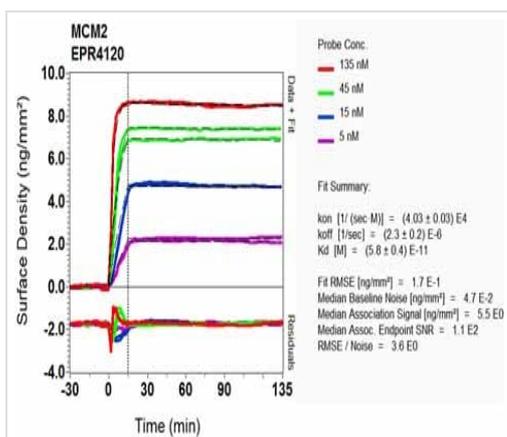
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunohistochemical staining of paraffin embedded rat liver with unpurified ab108935 at a working dilution of 1 in 100. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.



Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [EPR4120] (ab108935)

Immunofluorescent staining of MCF7 cells (fixed with 4% PFA) with unpurified ab108935 at a dilution of 1/250. An Alexa Fluor<sup>®</sup> 555 goat anti-rabbit antibody was used as the secondary at a dilution of 1/200. The panel on the right shows the DAPI counter-staining.



OI-RD Scanning - Anti-MCM2 antibody [EPR4120] (ab108935)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-MCM2 antibody [EPR4120] (ab108935)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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