abcam

Product datasheet

Anti-Cyclin A2 antibody [EPR17351] ab181591

重组 RabMAb

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概述

产品名称	Anti-Cyclin A2抗体[EPR17351]
描述	兔单克隆抗体[EPR17351] to Cyclin A2
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat, C6, RAW 264.7 and PC-12 whole cell lysates; HeLa Untreated, asynchronous cells, HeLa G1/S arrested cells (thymidine treatment) and HeLa G2/M arrested cells (sequential thymidine and nocodazole treatments) cell lysates; Human tonsil and fetal kidney lysates; Rat spleen lysate. IHC-P: Human tonsil, Human cervix carcinoma, rat colon and mouse endometrium tissues. ICC/IF: HeLa cells.
常规说明	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**.

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR17351

同种型 IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab181591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
ICC/IF		1/500.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/2000. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa).

靶标

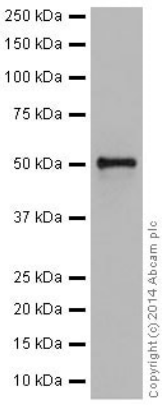
功能 Essential for the control of the cell cycle at the G1/S (start) and the G2/M (mitosis) transitions.

序列相似性 Belongs to the cyclin family. Cyclin AB subfamily.

发展阶段 Accumulates steadily during G2 and is abruptly destroyed at mitosis.

细胞定位 Nucleus. Cytoplasm. Cytoplasmic when associated with SCAPER.

图片



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

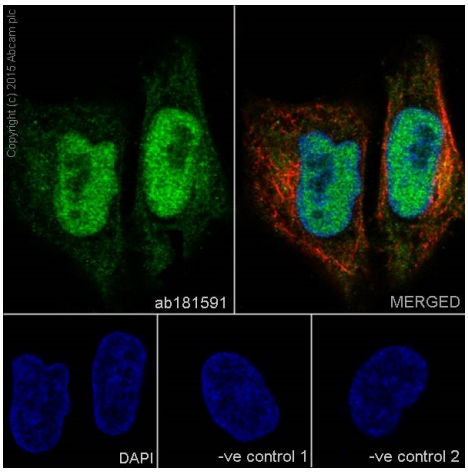
Anti-Cyclin A2 antibody [EPR17351] (ab181591) at 1/20000 dilution + Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 10 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

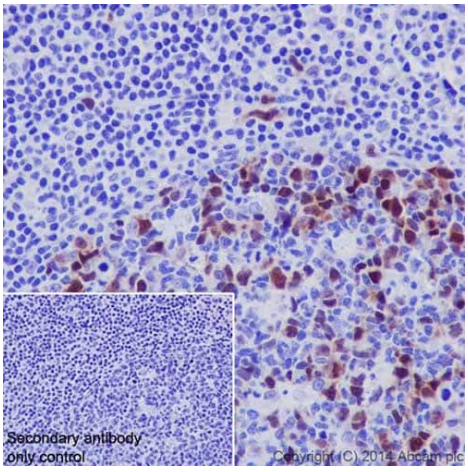


Immunocytochemistry/ Immunofluorescence - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Cyclin A2 with ab181591 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear and weakly cytoplasmic staining on HeLa cells. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [EPR17351]- Loading Control (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

The negative controls are as follows:
-ve control 1: ab181591 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/500 dilution.
-ve control 2: Anti-alpha Tubulin antibody [EPR17351]- Loading Control (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution.

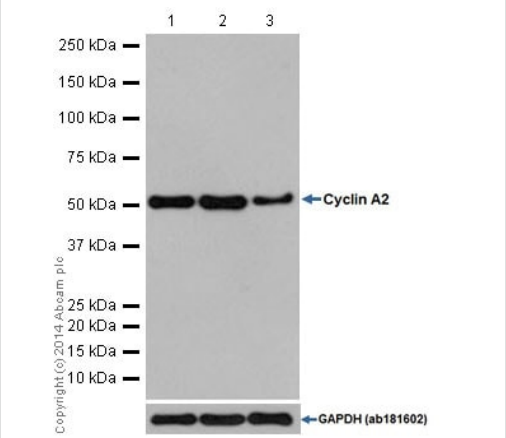


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Cyclin A2 with ab181591 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weak cytoplasmic staining on germinal center cells of Human tonsil tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

All lanes : Anti-Cyclin A2 antibody [EPR17351] (ab181591) at 1/20000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) lysate; Untreated, asynchronous cells (**ab136811**)
Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) lysate; G1/S arrested cells (thymidine treatment) (**ab136811**)
Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) lysate; G2/M arrested cells (sequential thymidine and nocodazole treatments) (**ab136811**)

Lysates/proteins at 1 µg per lane.

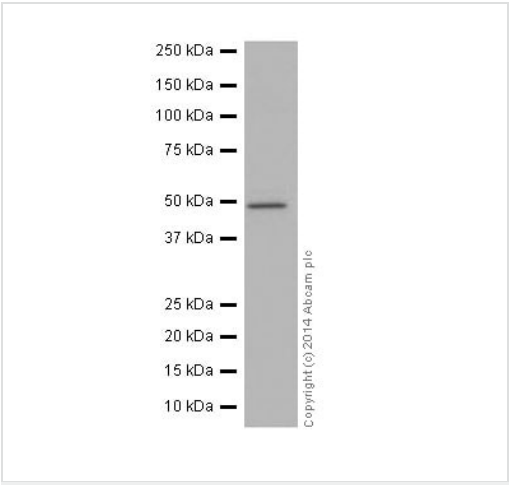
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated or Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Cyclin A2 is down regulated at the G2/M phase.



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Anti-Cyclin A2 antibody [EPR17351] (ab181591) + Human tonsil lysate at 10 µg

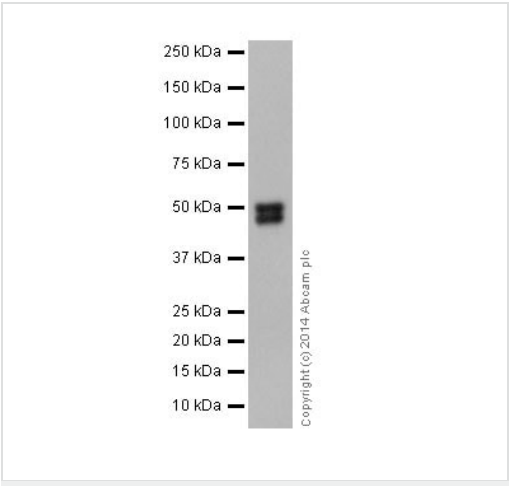
Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Anti-Cyclin A2 antibody [EPR17351] (ab181591) at 1/2000 dilution + Human fetal kidney lysate at 10 µg

Secondary

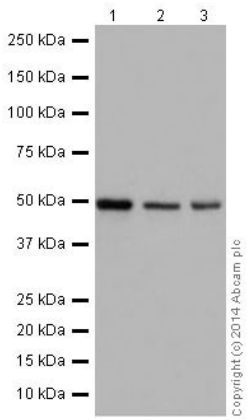
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The smaller band is due to a tissue-specific splice variant, PMID 22745723.



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

All lanes : Anti-Cyclin A2 antibody [EPR17351] (ab181591) at 1/2000 dilution

Lane 1 : C6 (Rat glial tumor cell line) whole cell lysate
Lane 2 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

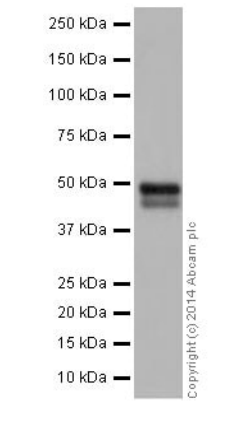
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Anti-Cyclin A2 antibody [EPR17351] (ab181591) at 1/2000 dilution + Rat spleen lysate at 10 µg

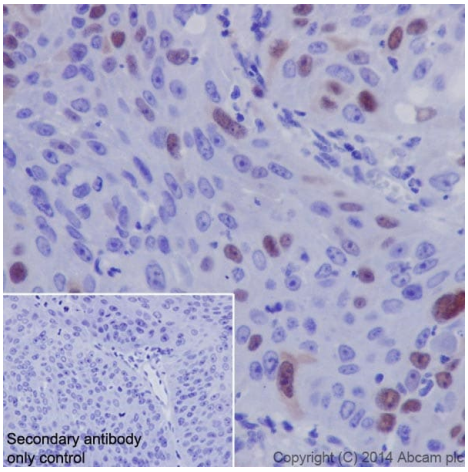
Secondary
Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 47 kDa
Observed band size: 50 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The smaller band is due to a tissue-specific splice variant, PMID 22745723.

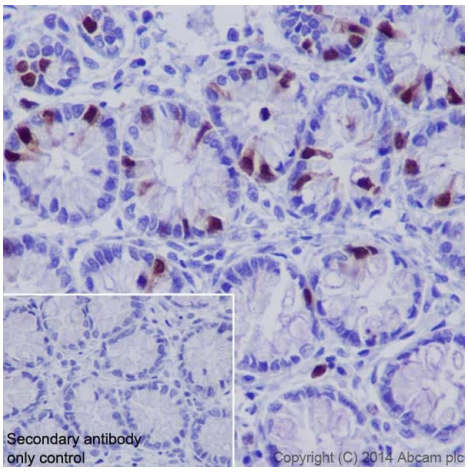


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling Cyclin A2 with ab181591 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weak cytoplasmic staining on some tumor cells in Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

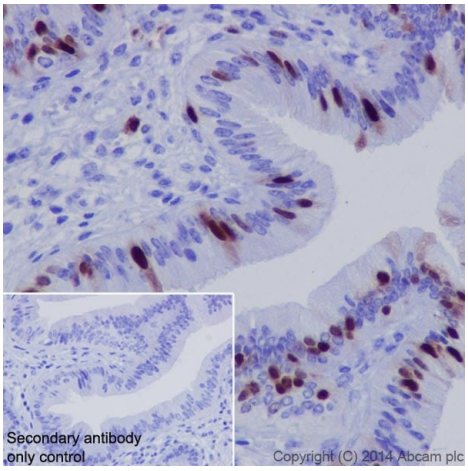


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling Cyclin A2 with ab181591 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weak cytoplasmic staining on a proportion of epithelial cells in rat colon tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

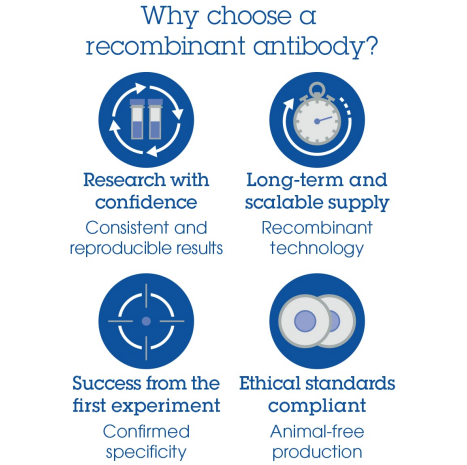


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin A2 antibody [EPR17351] (ab181591)

Immunohistochemical analysis of paraffin-embedded mouse endometrium tissue labeling Cyclin A2 with ab181591 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weak cytoplasmic staining on a proportion of epithelial cells in mouse endometrial tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Anti-Cyclin A2 antibody [EPR17351] (ab181591)

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