abcam

Product datasheet

Anti-Cyclin A2 antibody ab87359

1 Abreviews 2 References 3 图像

概述

产品名称	Anti-Cyclin A2抗体
描述	兔多克隆抗体to Cyclin A2
宿主	Rabbit
经测试应用	**适用于:** WB, ICC/IF
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat, Hamster
免疫原	Synthetic peptide corresponding to Mouse Cyclin A2 aa 400 to the C-terminus (C terminal) conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: P51943 (Peptide available as ab95425)
阳性对照	This antibody gave a positive signal in the following whole cell lysates: F9; MEF1; K562.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab87359** in the following tested applications.

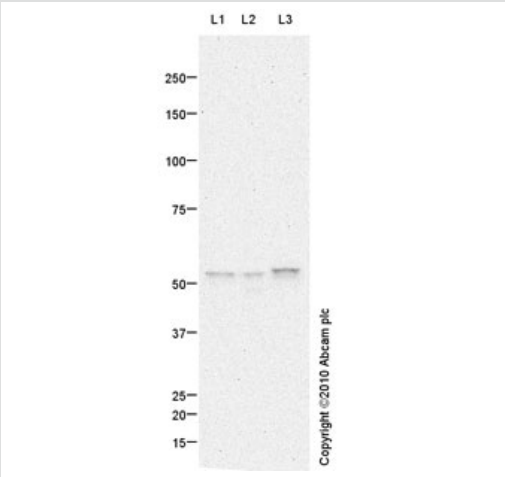
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 47 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

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 (ab87359)

All lanes : Anti-Cyclin A2 antibody (ab87359) at 1 µg/ml

Lane 1 : F9 (Mouse embryonic carcinoma cell line) Whole Cell Lysate
Lane 2 : MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3 : K562 (Human erythromyeloblastoid leukemia cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

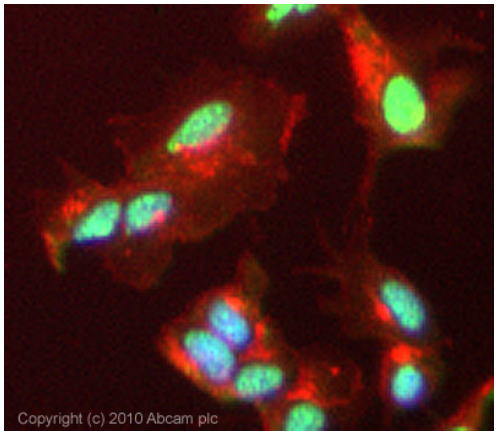
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa
Observed band size: 55 kDa

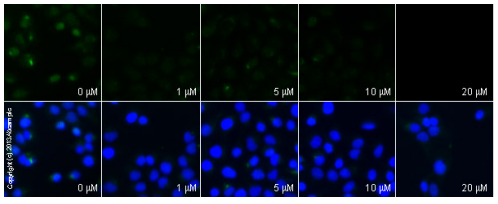
Exposure time: 20 minutes

The 55-kDa band observed is comparable to the molecular weight seen with other commercially available antibodies to Cyclin A.



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin A2 antibody (ab87359)

ICC/IF image of ab87359 stained HepG2 cells. The cells were 100% Methanol fixed (5 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab87359, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) HepG2 cells at 5µg/ml.



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin A2 antibody (ab87359)

ab87359 staining cyclin A in DU145 cells treated with lovastatin (ab120614), by ICC/IF. Decrease in cyclin A expression correlates with increased concentration of lovastatin, as described in literature.
The cells were incubated at 37°C for 24h in media containing different concentrations of ab120614 (lovastatin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab87359(5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (ab96899) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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