abcam

Product datasheet

Anti-Mad2L1 antibody [EPR9852] ab171084

敲除验证 重组 RabMAb

3 图像

概述

产品名称	Anti-Mad2L1抗体[EPR9852]
描述	兔单克隆抗体[EPR9852] to Mad2L1
宿主	Rabbit
经测试应用	**适用于:** WB **不适用于:** Flow Cyt,ICC/IF,IHC-P or IP
种属反应性	**与反应:** Human **不与反应:** Mouse, Rat
免疫原	Synthetic peptide within Human Mad2L1 aa 100-200. The exact sequence is proprietary. Database link: **Q13257**
阳性对照	WB: HAP1, HeLa, 293T, Jurkat, Raji and A431 cell lysates;
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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: Glycerol (glycerin, glycerine), BSA
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR9852

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab171084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。

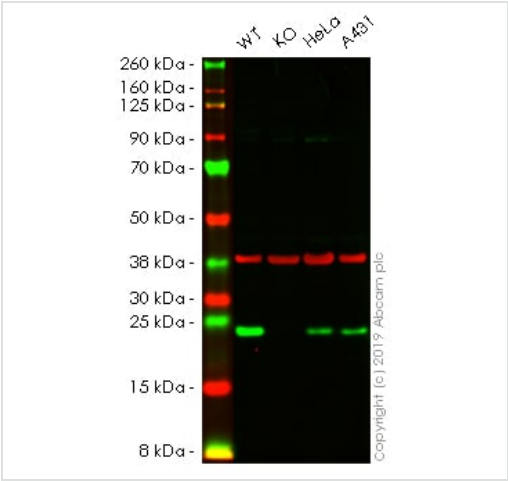
应用	Ab评论	说明
WB		1/1000 - 1/5000. Predicted molecular weight: 24 kDa.

应用说明 Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

靶标

功能	Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. Required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate.
序列相似性	Belongs to the MAD2 family. Contains 1 HORMA domain.
结构域	The protein has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. The protein in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20.
翻译后修饰	Phosphorylated on multiple serine residues. The level of phosphorylation varies during the cell cycle and is highest during mitosis. Phosphorylation abolishes interaction with MAD1L1 and reduces interaction with CDC20.
细胞定位	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm. Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase. Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. Kinetochore association requires the presence of NEK2. Kinetochore association is repressed by UBD.

图片



Western blot - Anti-Mad2L1 antibody [EPR9852] (ab171084)

All lanes : Anti-Mad2L1 antibody [EPR9852] (ab171084) at 1/1000 dilution

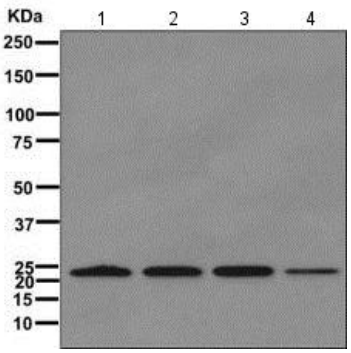
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : MAD2L1 knockout HAP1 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : A431 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 24 kDa
Observed band size: 24 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab171084 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab171084 was shown to specifically react with in wild-type HAP1 cells as signal was lost in MAD2L1 knockout cells. Wild-type and MAD2L1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% NF Milk. Ab171084 and **ab8245** (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.



Western blot - Anti-Mad2L1 antibody [EPR9852] (ab171084)

All lanes : Anti-Mad2L1 antibody [EPR9852] (ab171084) at 1/1000 dilution

Lane 1 : 293T cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : Raji cell lysate

Lane 4 : A431 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 24 kDa

Anti-Mad2L1 antibody [EPR9852] (ab171084)

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