abcam

Product datasheet

Anti-CENPE antibody [EPR4543(2)] ab124733

敲除验证 重组 RabMAb

1 Abreviews 4 References 3 图像

概述

产品名称	Anti-CENPE抗体[EPR4543(2)]
描述	兔单克隆抗体[EPR4543(2)] to CENPE
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
免疫原	Synthetic peptide within Human CENPE aa 2500-2600. The exact sequence is proprietary.
阳性对照	HepG2, HeLa, and Jurkat 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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR4543(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab124733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. Detects a band of approximately 320 kDa (predicted molecular weight: 316 kDa).

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

靶标

功能 Essential for the maintenance of chromosomal stability through efficient stabilization of microtubule capture at kinetochores. Plays a key role in the movement of chromosomes toward the metaphase plate during mitosis. Is a slow plus end-directed motor whose activity is essential for metaphase chromosome alignment. Couples chromosome position to microtubule depolymerizing activity. The highly processive microtubule-dependent motor activity of CENPE serves to power chromosome congression and provides a flexible, motile tether linking kinetochores to dynamic spindle microtubules. Necessary for the mitotic checkpoint signal at individual kinetochores to prevent aneuploidy due to single chromosome loss. Required for the efficient recruitment of BUBR1, MAD1 and MAD2 to attached and newly unattached kinetochores. Stimulates mammalian BUBR1 kinase activity. Accumulates just before mitosis at the G2 phase of the cell cycle.

疾病相关 Microcephaly 13, primary, autosomal recessive

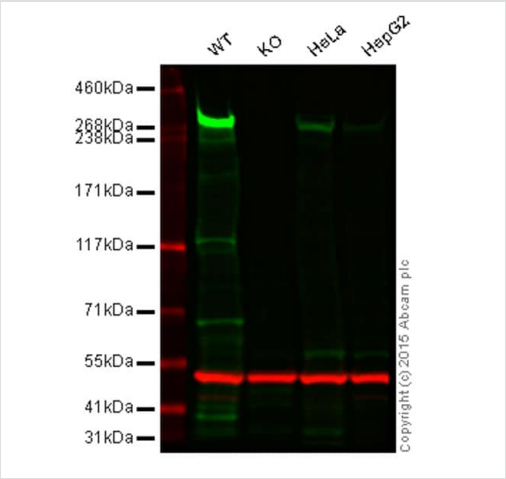
序列相似性 Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin family.
Contains 1 kinesin motor domain.

结构域 The protein is composed of a N-terminal kinesin-motor domain involved in the chromosome movements, a long coil-coiled region involved in the homodimerization and an inhibitory C-tail involved in autoinhibition of the N-terminal catalytic part.

翻译后修饰 The C-terminal inhibitory domain is phosphorylated. Phosphorylation relieves autoinhibition of the kinetochore motor.
Sumoylated with SUMO2 and SUMO3. The sumoylation mediates the association to the kinetochore.

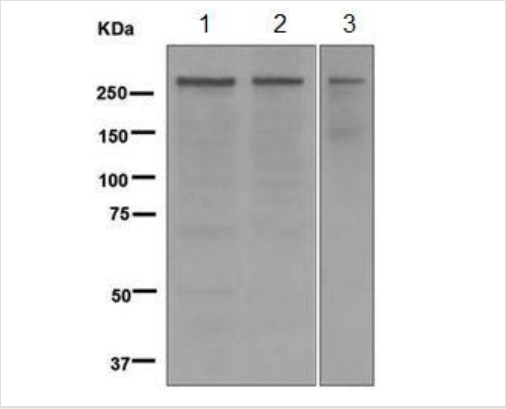
细胞定位 Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Associates with kinetochores during congression (as early as prometaphase), relocates to the spindle midzone at anaphase, and is quantitatively discarded at the end of the cell division.

图片



Western blot - Anti-CENPE antibody [EPR4543(2)] (ab124733)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: CENPE knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: HepG2 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab124733 observed at 310 kDa. Red - loading control, **ab8245**, observed at 37 kDa.
ab124733 was shown to specifically react with CENPE when CENPE knockout samples were used. Wild-type and CENPE knockout samples were subjected to SDS-PAGE. ab124733 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/2000 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 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-CENPE antibody [EPR4543(2)] (ab124733)

All lanes : Anti-CENPE antibody [EPR4543(2)] (ab124733) at 1/1000 dilution

Lane 1 : HepG2 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 316 kDa

Anti-CENPE antibody [EPR4543(2)] (ab124733)

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