abcam

Product datasheet

Anti-CENPB antibody [EPR24047-64] ab259855

敲除验证 重组 RabMAb

1 References 10 图像

概述

产品名称	Anti-CENPB抗体[EPR24047-64]
描述	兔单克隆抗体[EPR24047-64] to CENPB
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IP, ICC/IF, IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild-type A431, Jurkat, HeLa, HeLa, HEK-293T, NIH/3T3 and PC-12 cell lysates. IHC-P: Human pancreas, Human gastric cancer and Human ovarian carcinoma tissues. ICC/IF: HeLa cells. Flow Cyt(Intra) : HeLa cells. IP: HeLa and NIH/3T3 cells.
常规说明	IHC-P, ICC and FC - suitable for human only 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR24047-64
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab259855于以下的经测试应用**

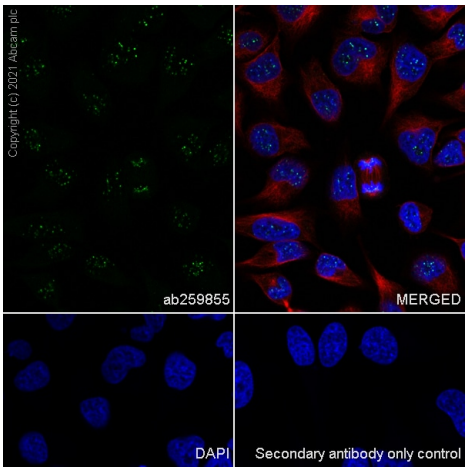
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/50.
IP		1/30.
ICC/IF		1/50.
IHC-P		1/100.
WB		1/1000. Predicted molecular weight: 65 kDa.

靶标

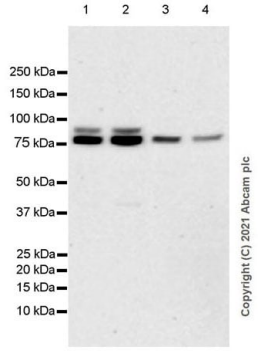
功能	Interacts with centromeric heterochromatin in chromosomes and binds to a specific subset of alphoid satellite DNA, called the CENP-B box. May organize arrays of centromere satellite DNA into a higher order structure which then directs centromere formation and kinetochore assembly in mammalian chromosomes.
序列相似性	Contains 1 HTH CENPB-type DNA-binding domain. Contains 1 HTH psq-type DNA-binding domain.
细胞定位	Nucleus. Chromosome > centromere.

图片



Immunocytochemistry/ Immunofluorescence - Anti-CENPB antibody [EPR24047-64] (ab259855)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa cells labelling CENPB with ab259855 at 1/50 dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 µg/mL dilution (Green). Confocal image showing centromere staining in HeLa cell line. is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5µg/mL dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 µg/mL dilution.



Western blot - Anti-CENPB antibody [EPR24047-64] (ab259855)

All lanes : Anti-CENPB antibody [EPR24047-64] (ab259855) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : HEK-293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

Secondary
Lanes 1-3 : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/50000 dilution
Lane 4 : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

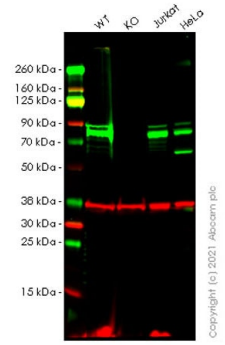
Predicted band size: 65 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Lysates were made freshly and used in WB test immediately to minimize protein degradation.

Fresh lysates are preferred in this product.

Exposure time: 3 minutes



Western blot - Anti-CENPB antibody [EPR24047-64] (ab259855)

All lanes : Anti-CENPB antibody [EPR24047-64] (ab259855) at 1/1000 dilution

Lane 1 : Wild-type A431 (human epidermoid carcinoma epithelial cell) whole cell lysate
Lane 2 : CENPB knockout A431 whole cell lysate
Lane 3 : Jurkat (human T cell leukemia T lymphocyte) whole cell lysate
Lane 4 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 800CW) (**ab216773**) and Goat Anti-Mouse IgG H&L (IRDye® 680RD) (**ab216776**) at 1/10000 dilution

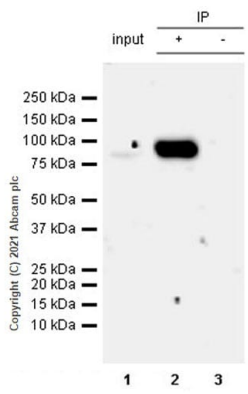
Predicted band size: 65 kDa

Blocking and diluting buffer and concentration: Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS

Lanes 1-4: Merged signal (red and green). Green - ab259855 observed at 75 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab259855 Anti-CENPB antibody [EPR24047-64] was shown to specifically react with CENPB in wild-type A431 cells. Loss of signal was observed when the knockout cell line **ab274919** (knockout cell lysate **ab274977**) was used. Wild-type and CENPB knockout samples were subjected to SDS-PAGE. ab259855 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at 4°C overnight at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 10000 dilution for 1 hour at room temperature before imaging.

Fresh lysates are preferred in this product.



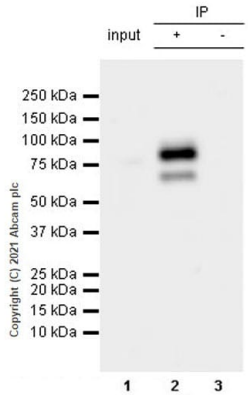
Immunoprecipitation - Anti-CENPB antibody [EPR24047-64] (ab259855)

CENPB was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 µg with ab259855 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259855 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 ug
Lane 2: abab259855 IP in NIH/3T3 whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab259855 in NIH/3T3 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes



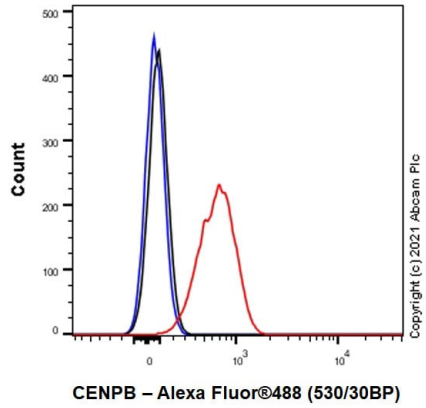
Immunoprecipitation - Anti-CENPB antibody [EPR24047-64] (ab259855)

CENPB was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with ab259855 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259855 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 ug
Lane 2: abab259855 IP in HeLa whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab259855 in HeLa whole cell lysate

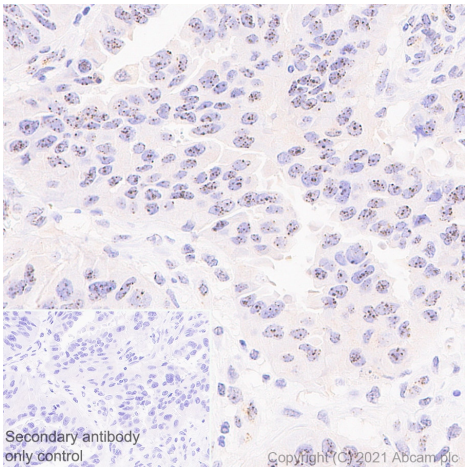
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds



Flow Cytometry (Intracellular) - Anti-CENPB antibody [EPR24047-64] (ab259855)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling CENPB with ab259855 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.

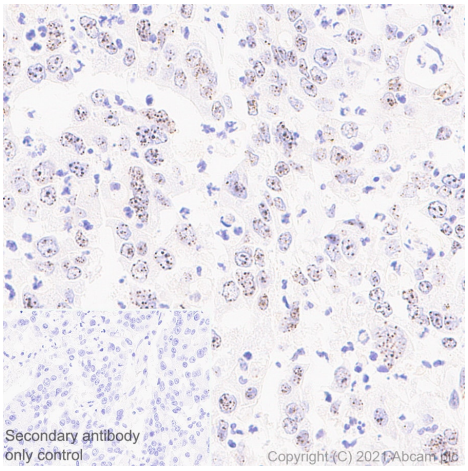


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPB antibody [EPR24047-64] (ab259855)

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labelling CENPB with ab259855 at 1/100 (5.39 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on centromere in human ovarian carcinoma (PMID: 12839935).The section was incubated with ab259855 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPB antibody [EPR24047-64] (ab259855)

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue labelling CENPB with ab259855 at 1/100 (5.39 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on centromere in human gastric cancer (PMID: 12839935). The section was incubated with ab259855 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

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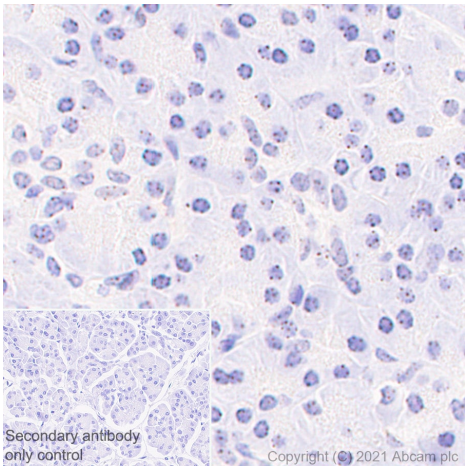

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPB antibody [EPR24047-64] (ab259855)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labelling CENPB with ab259855 at 1/100 (5.39 µg/mL) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on centromere in human pancreas (PMID: 12839935). The section was incubated with ab259855 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Anti-CENPB antibody [EPR24047-64] (ab259855)

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