

### Anti-CENPF antibody ab5

★★★★★ [7 Abreviews](#) [107 References](#) [画像数 6](#)

#### 製品の概要

製品名	Anti-CENPF antibody
製品の詳細	Rabbit polyclonal to CENPF
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC, Flow Cyt, ICC/IF, IP, IHC-P, WB
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Fusion protein with C-terminus of CENP-F (Human).
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

#### アプリケーション

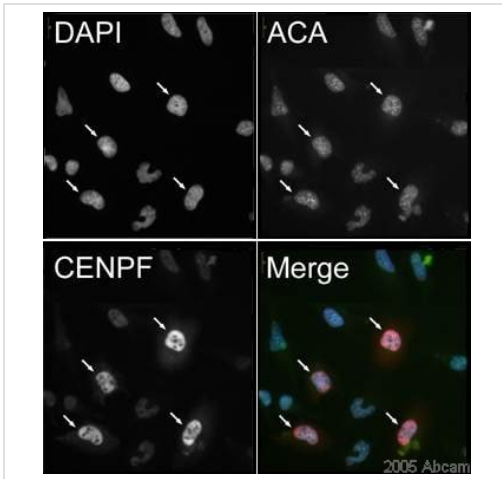
**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab5の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. <b>ab171870</b> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (5)	1/400 - 1/750.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
WB		1/1500. Detects a band of approximately 330 kDa (predicted molecular weight: 330 kDa). Block membranes for 1 hour with 5% nonfat dry milk/TBS-T.

## ターゲット情報

機能	Required for kinetochore function and chromosome segregation in mitosis. Required for kinetochore localization of dynein, LIS1, NDE1 and NDEL1. Regulates recycling of the plasma membrane by acting as a link between recycling vesicles and the microtubule network through its association with STX4 and SNAP25. Acts as a potential inhibitor of pocket protein-mediated cellular processes during development by regulating the activity of RB proteins during cell division and proliferation. May play a regulatory or permissive role in the normal embryonic cardiomyocyte cell cycle and in promoting continued mitosis in transformed, abnormally dividing neonatal cardiomyocytes. Interaction with RB directs embryonic stem cells toward a cardiac lineage. Involved in the regulation of DNA synthesis and hence cell cycle progression, via its C-terminus. Has a potential role regulating skeletal myogenesis and in cell differentiation in embryogenesis. Involved in dendritic cell regulation of T-cell immunity against chlamydia.
関連疾患	Stromme syndrome
配列類似性	Belongs to the centromere protein F family.
発生段階	Gradually accumulates during the cell cycle, reaching peak levels in G2 and M phase, and is rapidly degraded upon completion of mitosis.
翻訳後修飾	Hyperphosphorylated during mitosis.
細胞内局在	Cytoplasm, perinuclear region. Nucleus matrix. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Relocalizes to the kinetochore/centromere (coronal surface of the outer plate) and the spindle during mitosis. Observed in nucleus during interphase but not in the nucleolus. At metaphase becomes localized to areas including kinetochore and mitotic apparatus as well as cytoplasm. By telophase, is concentrated within the intracellular bridge at either side of the mid-body.

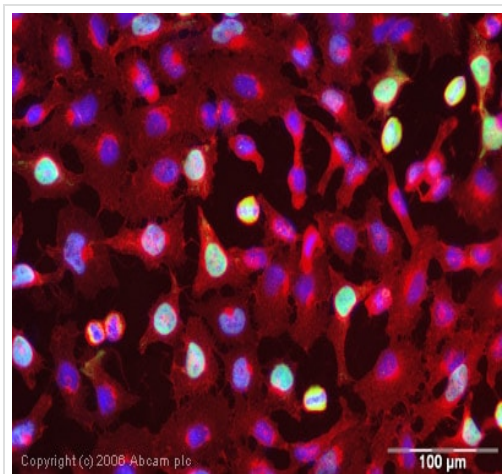
## 画像



Immunocytochemistry/ Immunofluorescence - Anti-CENPF antibody (ab5)

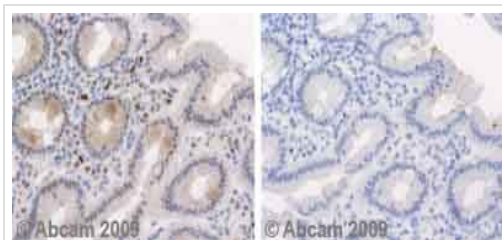
This image is courtesy of Kirk McManus, University of British Columbia

HeLa cells were labelled with anti-ACA and anti-CENPF (ab5). ab5 was used at a working dilution of 1/400. This image demonstrates the dramatic increase in fluorescence that occurs late in G2 cells (indicated by arrows). In the final panel DAPI is pseudo-coloured blue, while ACA and CENPF are coloured green and red respectively. 40x magnification.



Immunocytochemistry/ Immunofluorescence - Anti-CENPF antibody (ab5)

ICC/IF image of ab5 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab5, 1 µg/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Image-iT™ FX Signal Enhancer was used as the primary blocking agent, 5% BSA (in TBS-T) was used for all other blocking steps. DAPI was used to stain the cell nuclei (blue). Alexa Fluor® 594 WGA was used to label plasma membranes (red).



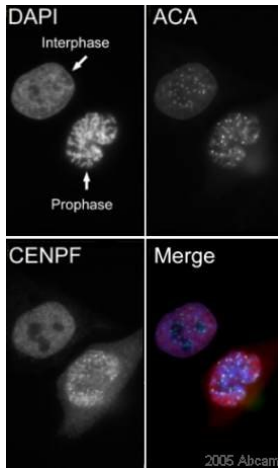
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPF antibody (ab5)

Ab5 staining Human normal colon tissue. Staining is localised to nuclear compartment.

Left panel: with primary antibody at 4 µg/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus, at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection

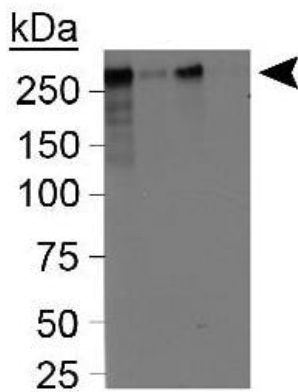
was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-CENPF antibody (ab5)

This image is courtesy of Kirk McManus, University of British Columbia

Interphase and Prophase HeLa cells were labelled with anti-ACA and anti-CENPF (ab5). ab5 was used at a working dilution of 1/400. This image emphasizes the redistribution of CENPF from the nuclear matrix during late G2 following entry into the initial stages of mitosis (see the accompanying image). Distinct punctate CENPF patterns proximally located in relation to the centromeres can be seen. In the final panel DAPI is pseudo-coloured blue, while ACA and CENPF are green and red respectively. 100x magnification.



Western blot - Anti-CENPF antibody (ab5)

**All lanes :** Anti-CENPF antibody (ab5) at 1/1500 dilution

**Lane 1 :** Mitotic HeLa Lysate

**Lane 2 :** Asynchronous HeLa Lysate

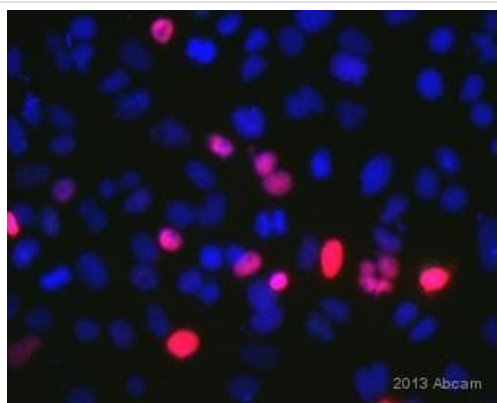
**Lane 3 :** 50gamma Mitotic HeLa Lysate

**Lane 4 :** 50gamma Asynchronous HeLa Lysate

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 330 kDa

**Observed band size:** 310 kDa



Paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized A549 (human lung carcinoma cell line) cells stained for CENPF (red) using ab5 at 1/500 dilution in ICC/IF. ). Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 555) at 1/500 dilution was used as the secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-CENPF antibody (ab5)

This image is courtesy of an Abreview submitted by Dr. Stuart Rulten.

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