


Anti-Pericentrin antibody - Centrosome Marker ab4448

★★★★★ [35 Abreviews](#) [487 References](#) [画像数 5](#)

製品の概要

製品名	Anti-Pericentrin antibody - Centrosome Marker
製品の詳細	Rabbit polyclonal to Pericentrin - Centrosome Marker
由来種	Rabbit
特異性	This antibody should recognise both Pericentrin and Kendrin (also known as Pericentrin-2).
アプリケーション	適用あり: ICC/IF
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat, Rabbit, African green monkey 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	ICC/IF: Human coronary artery endothelial, MCF7, HeLa and NIH/3T3 cells.
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&As</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
精製度	Protein G purified
ポリ/モノ	ポリクローナル

アプリケーション

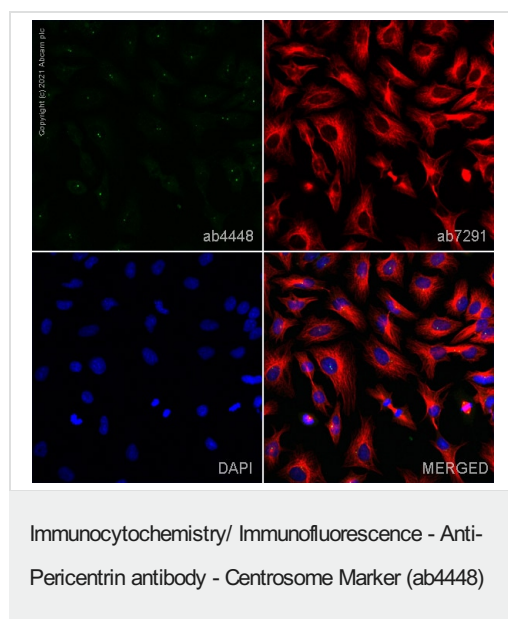
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab4448の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (30)	Use a concentration of 0.1 - 0.5 µg/ml.

ターゲット情報

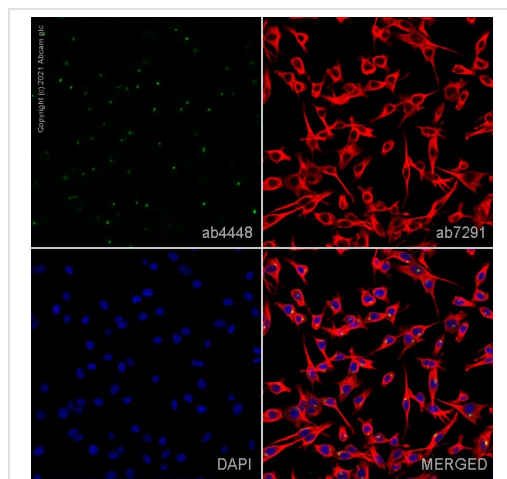
機能	Integral component of the filamentous matrix of the centrosome involved in the initial establishment of organized microtubule arrays in both mitosis and meiosis. Plays a role, together with DISC1, in the microtubule network formation. Is an integral component of the pericentriolar material (PCM). May play an important role in preventing premature centrosome splitting during interphase by inhibiting NEK2 kinase activity at the centrosome.
組織特異性	Expressed in all tissues tested, including placenta, liver, kidney and thymus.
関連疾患	Microcephalic osteodysplastic primordial dwarfism 2
ドメイン	Composed of a coiled-coil central region flanked by non-helical N- and C-terminals.
細胞内局在	Cytoplasm > cytoskeleton > microtubule organizing center > centrosome. Centrosomal at all stages of the cell cycle. Remains associated with centrosomes following microtubule depolymerization. Colocalized with DISC1 at the centrosome.

画像



ab4448 staining Pericentrin in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab4448 at 0.1 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.

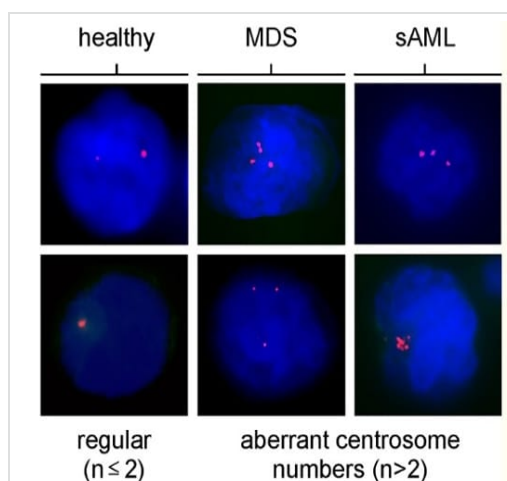


Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody - Centrosome Marker (ab4448)

ab4448 staining Pericentrin in NIH3T3 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab4448 at 0.1 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 100% methanol (5 min).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



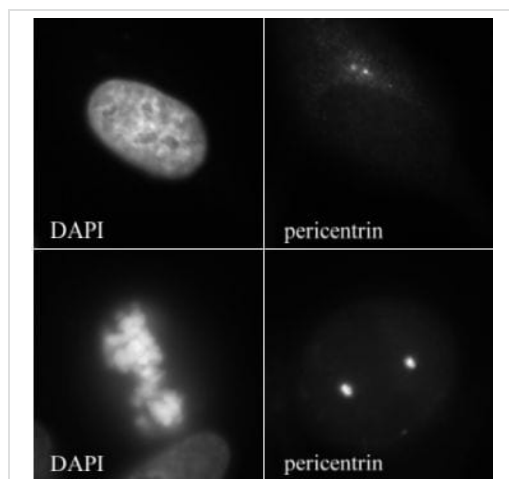
Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody - Centrosome Marker (ab4448)

Ruppenthal et al PLoS One. 2018 Jan 25;13(1):e0191734. doi: 10.1371/journal.pone.0191734. eCollection 2018. Fig 2. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

A representative panel of indirect immunofluorescence microscopic images shows normal (regular, $n \leq 2$) and aberrant centrosome numbers ($n > 2$) in interphase cells.

Centrosomes were stained using anti-pericentrin antibody ab4448 (magenta), nuclear DNA is shown in blue (DAPI).

Statistical methods: Kruskal-Wallis test. Mann-Whitney U tests followed by Bonferroni-Holm p-value correction were made as post-hoc tests in order to compare the MDS and sAML patients with the control group.



Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody - Centrosome Marker (ab4448)

This image is courtesy of Gordon Chan, University of Alberta

IF staining of pericentrin in MCF7 (Human breast adenocarcinoma cell line) cells.

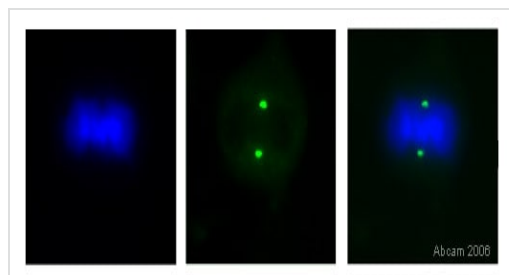
The top panel is an interphase cell showing centrosome staining.

The bottom panel shows a mitotic cell with spindle pole staining.

ab4448 was used at 1/500, but also works at higher dilutions (1/1000-1/2000).

Top panel - 630X magnification; Bottom panel -1000X magnification.

The secondary antibody was Alexa-Fluor®488 anti-rabbit.



Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody - Centrosome Marker (ab4448)

This image is courtesy of Roberto Giambruno, Marilena Ciciarello and Patrizia Lavia

NIH/3T3 (Mouse embryo fibroblast cell line) cells were fixed in 100% methanol for 6 minutes at -20°C, washed 3 times in PBS then incubated with ab4448 (1/2000) for 1 hour at room temperature.

The panel of images shows the nuclei stained with DAPI (blue), ab4448 staining is shown in green. 100x magnification.

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