


## Product datasheet

### Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker ab28144

Recombinant

★★★★★ **16 Abreviews** **85 References** [5 Images](#)

#### Overview

<b>Product name</b>	Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker
<b>Description</b>	Mouse monoclonal [mAbcam 28144] to Pericentrin - Centrosome Marker
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chinese hamster  <b>Does not react with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	ICC/IF: HeLa cells.
<b>General notes</b>	<p>This product has switched from a hybridoma to recombinant production method on 9th September 2020.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	mAbcam 28144
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

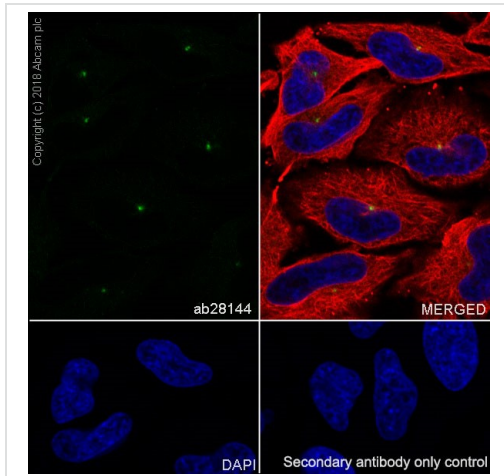
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab28144 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (11)	1/50.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Expressed in all tissues tested, including placenta, liver, kidney and thymus.
<b>Involvement in disease</b>	Microcephalic osteodysplastic primordial dwarfism 2
<b>Domain</b>	Composed of a coiled-coil central region flanked by non-helical N- and C-terminals.
<b>Cellular localization</b>	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.

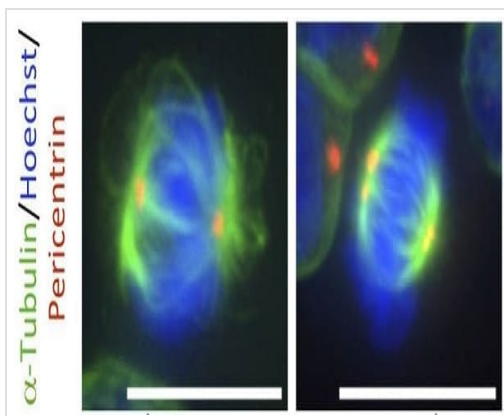
## Images



Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144)

Immunocytochemical analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Pericentrin with ab28144 at 1/50 dilution at 4°C overnight, followed by AlexaFluor® 488-conjugated Goat anti-Rabbit secondary antibody (**ab150077**) at 1/1000 dilution at RT for 30min. Alexa Fluor® 594 Anti-alpha Tubulin antibody [DM1A] (**ab195889**) was used as a counterstain at 1/200 dilution at RT for 30min. Nucleus were visualized using DAPI. The cells were 4% PFA fixed and permeabilized with 0.1% Triton X-100.

Confocal image showing centrosome staining in HeLa cells.

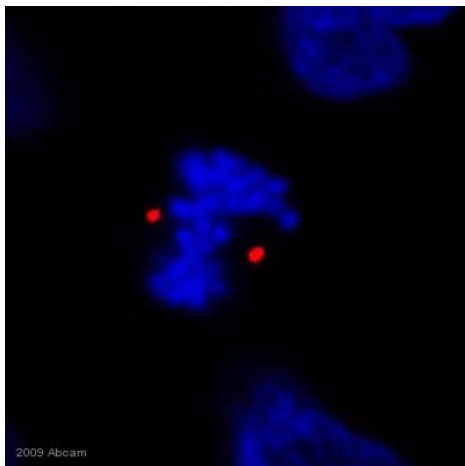


Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144)

Image from Sikkema, William K. A. et al. PLoS ONE 9.6 (2014): e98838. PMC. Web. 24 Feb. 2017. doi: 10.1371/journal.pone.0098838. Fig 4F. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Immunocytochemistry/ Immunofluorescence analysis of Y79 cells labeling Pericentrin with ab28144 (red). Cells were fixed for 10 minutes at room temperature in 4% paraformaldehyde. Cells were then permeabilized using 0.2% Triton/TBS and blocked with 5% NGS in 0.1% BSA/TBS-Tween. The cells were then incubated overnight at 4°C with Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144) at 1/1000 diluted in 0.1% BSA/TBS-Tween containing 1% NGS. Cells were then stained for Hoechst (blue) and alpha-tubulin (green).

This image was generated from the hybridoma version.

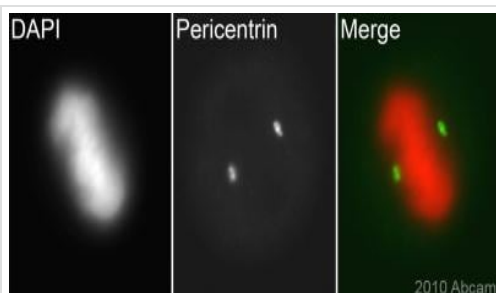


Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144)

This image is courtesy of an anonymous abreview.

Immunocytochemistry/ Immunofluorescence analysis of A549 lung cells labeling Pericentrin with ab28144 at 1/100 dilution. Cells were fixed with formaldehyde and permeabilized with Triton X-100. The cells were blocked with 10% serum for 30 minutes at 20°C, followed by incubation with ab28144 in PBS 10% FCS for 1 hour at 20°C. A polyclonal goat anti-mouse Alexa Fluor® 594 secondary antibody was used at 1/300 dilution.

This image was generated from the hybridoma version.



Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144)

This image is courtesy of an Abreview submitted by Dr Kirk McManus, Univ. of Manitoba/Cancer Care MCB.

Immunocytochemistry/ Immunofluorescence analysis of HeLa cells labeling Pericentrin with ab28144 at 1/200 dilution. Cells were fixed with methanol, followed by incubation with Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144) in PBS for 1 hour at 22°C. A polyclonal goat anti-mouse Cy3® secondary antibody was used at 1/200 dilution. Nuclear counterstained with DAPI.

This image was generated from the hybridoma version.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Pericentrin antibody [mAbcam 28144] - Centrosome Marker (ab28144)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors