

Anti-Pericentrin antibody [EPR21987] - Centrosome Marker ab220784

重组 RabMAb

★★★★☆ **2 Abreviews** **5 References** **9 图像**

概述

产品名称	Anti-Pericentrin抗体[EPR21987] - Centrosome Marker
描述	兔单克隆抗体[EPR21987] to Pericentrin - Centrosome Marker
宿主	Rabbit
特异性	IHC is recommended for human only.
经测试应用	适用于: IHC-P, ICC/IF, Flow Cyt (Intra), IP
种属反应性	与反应: Mouse, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	ICC/IF: HeLa and NIH/3T3 cells. IHC-P: Human breast, pancreas and thyroid carcinoma tissues. Flow Cyt (intra): HeLa cells. IP: HepG2 and NIH/3T3 whole cell lysates.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号 EPR21987

同种型 lgG

应用

The Abpromise guarantee **Abpromise™承诺**保证使用ab220784于以下的经测试应用

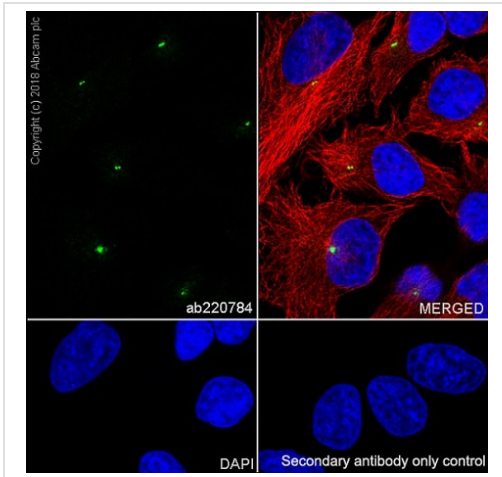
“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	1/2000.
Flow Cyt (Intra)		1/60.
IP		1/30.

靶标

功能	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.
组织特异性	Expressed in all tissues tested, including placenta, liver, kidney and thymus.
疾病相关	Microcephalic osteodysplastic primordial dwarfism 2
结构域	Composed of a coiled-coil central region flanked by non-helical N- and C-terminals.
细胞定位	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.

图片

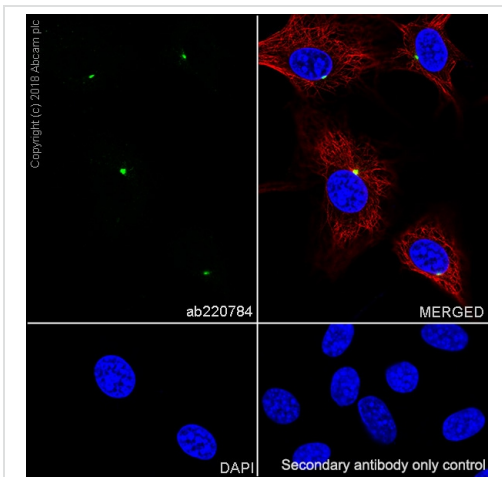


Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Immunofluorescent analysis of 100% Methanol-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Pericentrin with ab220784 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing centrosome staining in HeLa cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

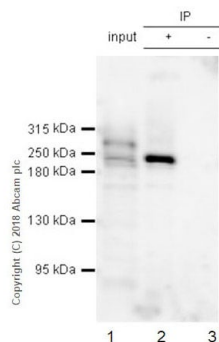


Immunocytochemistry/ Immunofluorescence - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Immunofluorescent analysis of 100% Methanol-fixed NIH/3T3 (mouse embryo fibroblast cell line) cells labeling Pericentrin with ab220784 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing centrosome staining in NIH/3T3 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Immunoprecipitation - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Pericentrin was immunoprecipitated from 0.35 mg HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with ab220784 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab220784 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

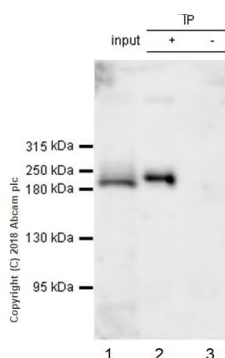
Lane 1: HepG2 whole cell lysate 10 µg (input).

Lane 2: ab220784 IP in HepG2 whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab220784 in HepG2 whole cell lysate (-).

Blocking and dilution buffer and concentration: 5% NFDm/TBST
Exposure time: 30 seconds

The 220 kDa band represent an isoform of Pericentrin (PMID: 23060948). We used a high sensitivity ECL substrate to develop this blot.



Immunoprecipitation - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Pericentrin was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast cell line) whole cell lysate with ab220784 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab220784 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection 1/1000 dilution.

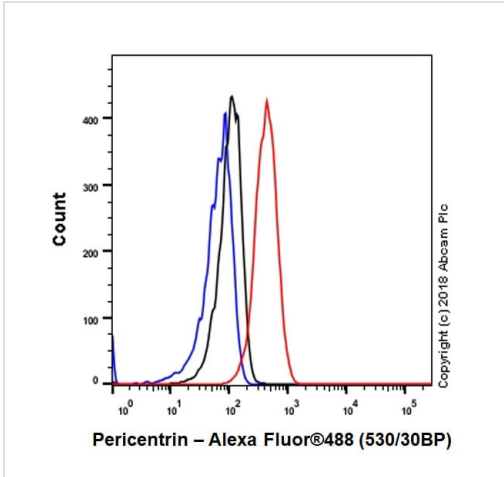
Lane 1: NIH/3T3 whole cell lysate 10 µg (input).

Lane 2: ab220784 IP in NIH/3T3 whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab220784 in NIH/3T3 whole cell lysate (-).

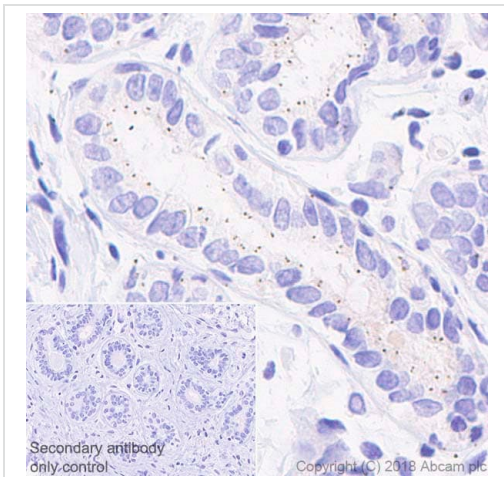
Blocking and dilution buffer and concentration: 5% NFDm/TBST
Exposure time: 30 seconds

The 220 kDa band represent an isoform of Pericentrin (PMID: 23060948). We use high sensitive ECL substrate.



Flow Cytometry (Intracellular) - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling Pericentrin with ab220784 at 1/60 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells incubated with secondary antibody only) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

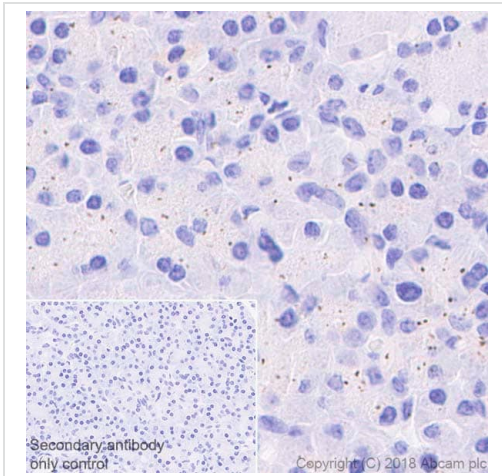


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Immunohistochemical analysis of paraffin-embedded human breast tissue labeling Pericentrin with ab220784 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of centrosomes in human mammary epithelial cells (PMID: 16534625, PMID: 22031837). Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

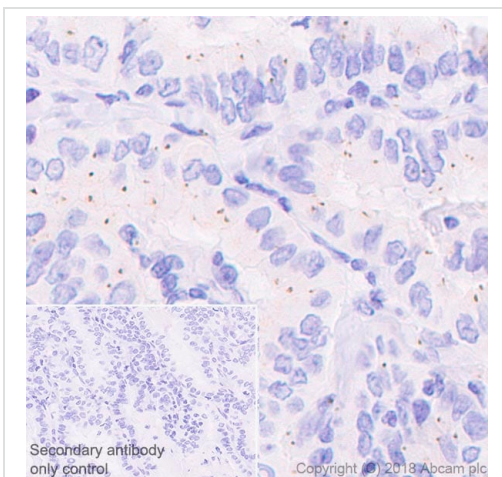


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling Pericentrin with ab220784 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of centrosomes in human pancreas (PMID: 16534625, PMID: 22031837). Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Pericentrin antibody [EPR21987] - Centrosome Marker (ab220784)

Immunohistochemical analysis of paraffin-embedded human thyroid carcinoma tissue labeling Pericentrin with ab220784 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of centrosomes in human thyroid carcinoma (PMID: 16534625, PMID: 22031837). Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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