

# Product Datasheet

## Pericentrin Antibody - BSA Free NB100-61071

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Updated 9/9/2025 v.20.1

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**NB100-61071**

Pericentrin Antibody - BSA Free

Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
<b>Target Molecular Weight</b>	378 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Pericentrin Antibody - BSA Free (NB100-61071) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Pericentrin Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5116
<b>Gene Symbol</b>	PCNT
<b>Species</b>	Human
<b>Marker</b>	Centrosome Marker
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residue 175 and 225 of human Pericentrin/Kendrin using the numbering given in entry NP_006022.3 (GeneID 5116).

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000 - 1:10000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:1000 - 1:5000, Immunoprecipitation 2 - 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:10 - 1:500
<b>Application Notes</b>	IHC-P was reported in scientific literature (PMID: 23369289). ICC/IF reactivity reported in scientific literature (PMID: 24316073). For ICC/IF, formaldehyde or acetone fixation is recommended. Permeabilization with Triton X-100 is recommended for formaldehyde-fixed cells.

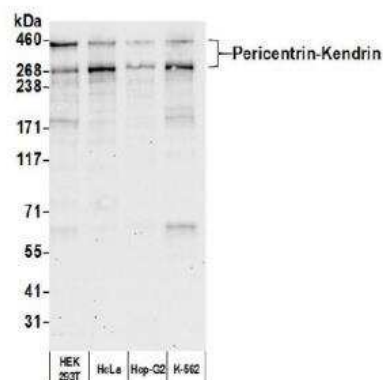


## Images

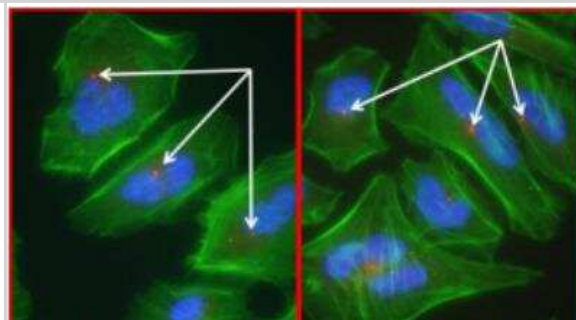
**Immunohistochemistry: Pericentrin Antibody [NB100-61071] -**  
**Immunofluorescent analysis of cilia in renal tissues.** Sections (4  $\mu$ m) of renal parenchymal tissues and tumor tissues were stained with DAPI, acetylated-alpha-tubulin (Ac-tub) and pericentrin (PCNT) to mark cell nuclei and cilia. Presented images are maximal projections of confocal images of typical parenchymal tissue and a representative ccRCC. Scale bars 20  $\mu$ m. Statistics were determined by performing a paired t-test at a 95% confidence interval. Image collected and cropped by CiteAb from the following publication (<https://ciliajournal.biomedcentral.com/articles/10.1186/2046-2530-2-2>) licensed under a CC-BY license.



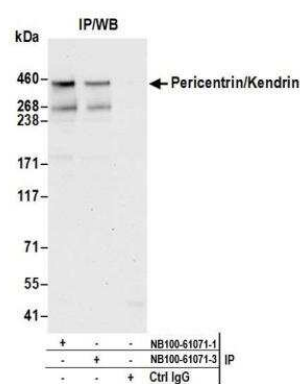
**Western Blot: Pericentrin Antibody [NB100-61071] -** Whole cell lysate (10  $\mu$ g) from HEK293T, HeLa, Hep-G2, and K-562 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-Pericentrin-Kendrin antibody used for WB at 0.04  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 30 second.



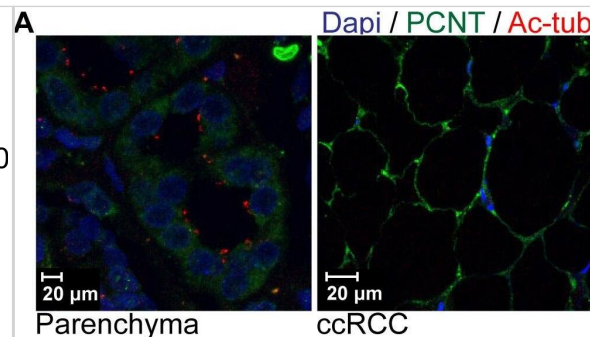
**Immunocytochemistry/Immunofluorescence: Pericentrin Antibody [NB100-61071] -** Formaldehyde-fixed asynchronous HeLa cells. Antibody: Affinity purified rabbit anti-Pericentrin/Kendrin used at a dilution of 1:1,000 (1  $\mu$ g/ml). Detection: Red-fluorescent goat anti-rabbit IgG-heavy and light chain cross-adsorbed Antibody DyLight (R) 594 Conjugated used at a dilution of 1:100. Counterstain. DAPI (blue) and Phalloidin (green)



**Immunoprecipitation: Pericentrin Antibody [NB100-61071] -** Detection of human Pericentrin/Kendrin by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-Pericentrin/Kendrin antibody NB100-61071 (lot 3) used for IP at 6  $\mu$ g per reaction. Pericentrin/Kendrin was also immunoprecipitated by a previous lot of this antibody (lot 1). For blotting immunoprecipitated Pericentrin/Kendrin, NB100-61071 was used at 1  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Immunofluorescent analysis of cilia in renal tissues. (A) Sections (4  $\mu\text{m}$ ) of renal parenchymal tissues and tumor tissues were stained with DAPI, acetylated- $\alpha$ -tubulin (Ac-tub) and pericentrin (PCNT) to mark cell nuclei and cilia. Presented images are maximal projections of confocal images of typical parenchymal tissue and a representative ccRCC. Scale bars 20  $\mu\text{m}$ . (B) Normalized cilia frequencies of renal tumors, shown are paired quantifications of  $n = 20$  samples. The plot compares the two cilia quantification methodologies described; data was obtained by immunofluorescent (IF) confocal image acquisition or scoring of immunohistochemical (IHC) stained sections. Statistics were determined by performing a paired t-test at a 95% confidence interval. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/23369289>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Siyi Bai, Fatima Martin-Sanchez, David Brough, Gloria Lopez-Castejon Pyroptosis leads to loss of centrosomal integrity in macrophages *Cell Death Discovery* 2024-08-08 [PMID: 39117604] (Western Blot)

Baro L, Islam A, Brown HM et al. APC-driven actin nucleation powers collective cell dynamics in colorectal cancer cells *iScience* 2023-05-19 [PMID: 37128612] (ICC/IF, Human)

Details:

Dilution: 1:1000

Cuenca A, Insinna C, Zhao H et al. The C7orf43/TRAPPC14 component links the TRAPP II complex to RABIN8 for preciliary vesicle tethering at the mother centriole during ciliogenesis *J. Biol. Chem.* 2019-08-29 [PMID: 31467083] (ICC/IF, Human)

Walia V, Cuenca A, Vetter M et al. Akt Regulates a Rab11-Effector Switch Required for Ciliogenesis *Dev Cell.* 2019-05-31 [PMID: 31204173]

Motuhi SE, Feizbakhsh O, Foll-Josselin B et al. Neurymenolide A, a Novel Mitotic Spindle Poison from the New Caledonian Rhodophyta *Phacelocarpus neurymenioides* *Mar Drugs* 2019-02-01 [PMID: 30717235] (ICC/IF, Human)

Insinna C, Lu Q, Teixeira I et al. Investigation of F-BAR domain PACSIN proteins uncovers membrane tubulation function in cilia assembly and transport. *Nat Commun* 2019-01-25 [PMID: 30683896] (ICC/IF, Human)

Xia X, Gholkar A, Senese S, Torres JZ. A LCMT1-PME-1 Methylation Equilibrium Controls Mitotic Spindle Size *Cell Cycle* 2015-04-03 [PMID: 25839665] (ICC/IF, Human)

Details:

Pericentrin antibody was used for ICC-IF on HeLa cells which were transfected with si-Control, siLCMT1, or siPME-1 for 48 hours (Fig 1B).

Loktev AV, Jackson PK. Neuropeptide Y Family Receptors Traffic via the Bardet-Biedl Syndrome Pathway to Signal in Neuronal Primary Cilia. *Cell Rep* 2013-12-12 [PMID: 24316073] (ICC/IF, Human)

Basten SG, Willekers S, Vermaat JS et al. Reduced cilia frequencies in human renal cell carcinomas versus neighboring parenchymal tissue. *Cilia* 2013-01-31 [PMID: 23369289] (ICC/IF, IHC-P, Human)



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### **Products Related to NB100-61071**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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