

# Pericentrin 2 (C-16): sc-28145

## BACKGROUND

Pericentrin 2, also known as Pericentrin B or Kendrin, is an integral component of the pericentriolar material. The protein localizes specifically to centrosomes throughout all stages of the cell cycle. The protein remains centrosomal following microtubule depolymerization. Pericentrin 2 binds calmodulin and is widely expressed in most tissues, including kidney, placenta, liver and thymus.

## REFERENCES

1. Flory, M.R., et al. 2000. Identification of a human centrosomal calmodulin-binding protein that shares homology with pericentrin. *Proc. Natl. Acad. Sci. USA* 11: 5919-5923
2. Fritzler, M.J., et al. 2003. Spectrum of centrosome autoantibodies in childhood varicella and post-varicella acute cerebellar ataxia. *BMC Pediatr.* 3: 11.
3. Miyoshi, K., et al. 2004. DISC1 localizes to the centrosome by binding to kendrin. *Biochem. Biophys. Res. Commun.* 317: 1195-1199.
4. Zimmerman, et al. 2004. Mitosis-specific anchoring of  $\gamma$ -tubulin complexes by pericentrin controls spindle organization and mitotic entry. *Mol. Biol. Cell* 15: 3642-3657.

## CHROMOSOMAL LOCATION

Genetic locus: PCNT2 (human) mapping to 21q22.3; Pcnt2 (mouse) mapping to 10 C1.

## SOURCE

Pericentrin 2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Pericentrin 2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28145 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Pericentrin 2 (C-16) is recommended for detection of Pericentrin 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

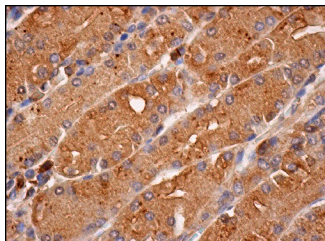
Suitable for use as control antibody for Pericentrin 2 siRNA (h): sc-45456, Pericentrin 2 siRNA (m): sc-45457, Pericentrin 2 shRNA Plasmid (h): sc-45456-SH, Pericentrin 2 shRNA Plasmid (m): sc-45457-SH, Pericentrin 2 shRNA (h) Lentiviral Particles: sc-45456-V and Pericentrin 2 shRNA (m) Lentiviral Particles: sc-45457-V.

Molecular Weight of Pericentrin 2: 220 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DAYA



Pericentrin 2 (C-16): sc-28145. Immunoperoxidase staining of formalin fixed, paraffin-embedded human upper stomach tissue showing cytoplasmic staining of glandular cells.

## SELECT PRODUCT CITATIONS

1. Fong, K.W., et al. 2008. CDK5RAP2 is a pericentriolar protein that functions in centrosomal attachment of the  $\gamma$ -tubulin ring complex. *Mol. Biol. Cell* 19: 115-125.
2. Nielsen, S.K., et al. 2008. Characterization of primary cilia and Hedgehog signaling during development of the human pancreas and in human pancreatic duct cancer cell lines. *Dev. Dyn.* 237: 2039-2052.
3. Awan, A., et al. 2010. Immunofluorescence and mRNA analysis of human embryonic stem cells (hESCs) grown under feeder-free conditions. *Methods Mol. Biol.* 584: 195-210.
4. Schneider, L., et al. 2010. Directional cell migration and chemotaxis in wound healing response to PDGF-AA are coordinated by the primary cilium in fibroblasts. *Cell. Physiol. Biochem.* 25: 279-292.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.