

# Pericentrin 2 (M-208): sc-68929

## 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

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2. Fritzler, M.J., Zhang, M., Stinton, L.M. and Rattner, J.B. 2003. Spectrum of centrosome autoantibodies in childhood varicella and post-varicella acute cerebellar ataxia. *BMC Pediatr.* 3: 11.
3. Miyoshi, K., Asanuma, M., Miyazaki, I., Diaz-Corrales, F.J., Katayama, T., Tohyama, M. and Ogawa, N. 2004. DISC1 localizes to the centrosome by binding to kendrin. *Biochem. Biophys. Res. Commun.* 317: 1195-1199.
4. Zimmerman, W.C., Sillibourne, J., Rosa, J. and Doxsey, S.J. 2004. Mitosis-specific anchoring of gamma tubulin complexes by pericentrin controls spindle organization and mitotic entry. *Mol. Biol. Cell* 15: 3642-3657.
5. Giehl, M., Fabarius, A., Frank, O., Hochhaus, A., Hafner, M., Hehlmann, R. and Seifarth, W. 2005. Centrosome aberrations in chronic myeloid leukemia correlate with stage of disease and chromosomal instability. *Leukemia.* 19: 1192-1197.
6. Golubkov, V.S., Chekanov, A.V., Doxsey, S.J. and Strongin, A.Y. 2005. Centrosomal pericentrin is a direct cleavage target of membrane type-1 matrix metalloproteinase in humans but not in mice: potential implications for tumorigenesis. *J. Biol. Chem.* 280: 42237-42421.
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## CHROMOSOMAL LOCATION

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

## SOURCE

Pericentrin 2 (M-208) is a rabbit polyclonal antibody raised against amino acids 93-300 mapping near the N-terminus of Pericentrin 2 of mouse origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## 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.

## APPLICATIONS

Pericentrin 2 (M-208) 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), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (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.

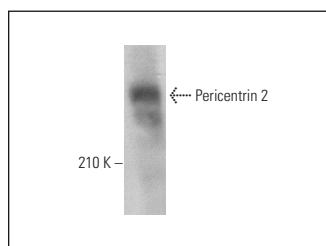
Molecular Weight of Pericentrin 2: 220 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or 3T3-L1 cell lysate: sc-2243.

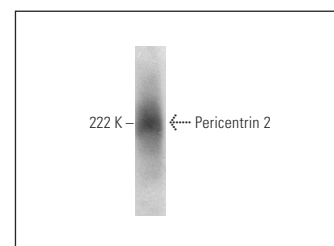
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Pericentrin 2 (M-208): sc-68929. Western blot analysis of Pericentrin 2 expression in 3T3-L1 whole cell lysate.



Pericentrin 2 (M-208): sc-68929. Western blot analysis of Pericentrin 2 expression in Hep G2 whole cell lysate.

## PROTOCOLS

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