PCM1 (G-6): sc-398365

BACKGROUND
Pericentriolar material is a dynamic substance whose composition can oscillate during the cell cycle. PCM1 (pericentriolar material 1), is a centrosomal protein that demonstrates a distinct cell cycle-dependent association with the centrosome complex. PCM1 is securely associated with the centrosome complex through G1, S, and a portion of G2. However, late in G2, as cells prepare for mitosis, PCM1 dissociates from the centrosome and then remains evenly diffused throughout the cell during mitosis before re-associating with the centrosomes in the G1 phase progeny cells. The chromosomal localization of the PCM1 on chromosome 8p22 is one of interest since this region is commonly deleted in several tumors. In thyroid tumor tissue, PCM1 expression drastically decreases and its subcellular localization is shifted.

CHROMOSOMAL LOCATION
Genetic locus: PCM1 (human) mapping to 8p22; Pcm1 (mouse) mapping to 8 A4.

SOURCE
PCM1 (G-6) is a mouse monoclonal antibody within a C-terminal cytoplasmic domain.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PCM1 (G-6) is available conjugated to agarose (sc-398365 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398365 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398365 PE), fluorescein (sc-398365 FITC), Alexa Fluor® 488 (sc-398365 AF488), Alexa Fluor® 546 (sc-398365 AF546), Alexa Fluor® 594 (sc-398365 AF594) or Alexa Fluor® 647 (sc-398365 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either phycoerythrin (sc-398365 PE), fluorescein (sc-398365 FITC), Alexa Fluor® 488 (sc-398365 AF488), Alexa Fluor® 546 (sc-398365 AF546), Alexa Fluor® 594 (sc-398365 AF594) or Alexa Fluor® 647 (sc-398365 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either phycoerythrin (sc-398365 PE), fluorescein (sc-398365 FITC), Alexa Fluor® 488 (sc-398365 AF488), Alexa Fluor® 546 (sc-398365 AF546), Alexa Fluor® 594 (sc-398365 AF594) or Alexa Fluor® 647 (sc-398365 AF647), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker® Molecular Weight Standards: sc-2935, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

SELECT PRODUCT CITATIONS

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

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.

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