

#5213
Store at -20°C

PCM-1 (G2000) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC, FC-FP	H M	Endogenous	228	Rabbit	#Q15154	5108

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:100
1:800
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

PCM-1 (G2000) Antibody detects endogenous levels of PCM-1 protein. Species cross-reactivity for IF-IC is human only.

Species predicted to react based on 100% sequence homology:

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region near the carboxyl terminus of human PCM-1 protein. Antibodies were purified by protein A and peptide affinity chromatography.

Background

The centrosome is composed of a pair of centrioles surrounded by electron-dense pericentriolar material and functions as the microtubule-organizing center responsible for microtubule nucleation and spindle organization during cell cycle progression (1). Pericentriolar material 1 (PCM-1) is a large, 228 kDa protein associated with the centrosome in a cell cycle dependent manner (2). PCM-1 localizes to small cytoplasmic granules called centrosomal satellites (3). PCM-1 is required for the assembly of several centrosomal proteins including centrin, pericentrin, ninein, NEK2, and CEP250 (4-8). Chromosomal translocations involving genes encoding PCM-1 and the tyrosine kinases Ret and Jak2 are associated with some cancers, including papillary thyroid carcinoma and myeloid leukemia (9-11).

Background References

1. Zimmerman, W. and Doxsey, S.J. (2000) *Traffic* 1, 927-34.
2. Balczon, R. et al. (1994) *J Cell Biol* 124, 783-93.
3. Kubo, A. and Tsukita, S. (2003) *J Cell Sci* 116, 919-28.
4. Kim, J. et al. (2008) *Hum Mol Genet* 17, 3796-805.
5. Dammermann, A. and Merdes, A. (2002) *J Cell Biol* 159, 255-66.
6. Li, Q. et al. (2001) *J Cell Sci* 114, 797-809.
7. Hames, R.S. et al. (2005) *Mol Biol Cell* 16, 1711-24.
8. Mack, G.J. et al. (1998) *Arthritis Rheum* 41, 551-8.
9. Corvi, R. et al. (2000) *Oncogene* 19, 4236-42.
10. Reiter, A. et al. (2005) *Cancer Res* 65, 2662-7.
11. Bousquet, M. et al. (2005) *Oncogene* 24, 7248-52.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)**FC-FP:** Flow Cytometry (Fixed/Permeabilized)**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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