PCM-1 (Q15) Antibody



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Applications: W, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 228	Source/Isotype: Rabbit	UniProt ID: #Q15154	Entrez-Gene Id: 5108
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed	•	istry)		Dilution 1:1000 1:400 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PCM-1 (Q15) Antibody detects endogenous levels of total PCM-1 protein.				
Species predictories based on 100% homology		Monkey				
Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residues near the amino terminus of human PCM-1 protein. Antibodies were purified by properties 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 centriolar 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).				
1. Zimmerman, W. and Doxsey, S.J. (2000) <i>Traffic</i> 1, 92. Balczon, R. et al. (1994) <i>J Cell Biol</i> 124, 783-93. 3. Kubo, A. and Tsukita, S. (2003) <i>J Cell Sci</i> 116, 919-24. Kim, J. et al. (2008) <i>Hum Mol Genet</i> 17, 3796-805. 5. Dammermann, A. and Merdes, A. (2002) <i>J Cell Biol</i> 6. Li, Q. et al. (2001) <i>J Cell Sci</i> 114, 797-809. 7. Hames, R.S. et al. (2005) <i>Mol Biol Cell</i> 16, 1711-24. 8. Mack, G.J. et al. (1998) <i>Arthritis Rheum</i> 41, 551-8. 9. Corvi, R. et al. (2000) <i>Oncogene</i> 19, 4236-42. 10. Reiter, A. et al. (2005) <i>Cancer Res</i> 65, 2662-7. 11. Bousquet, M. et al. (2005) <i>Oncogene</i> 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

H: Human

Cross-Reactivity Key

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