

For Research Use Only

PCM1 Recombinant antibody

Catalog Number: 84979-1-RR



Basic Information

Catalog Number: 84979-1-RR	GenBank Accession Number: BC000453	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 5108	CloneNo.: 242199A9
Source: Rabbit	UNIPROT ID: Q15154	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:300-1:1200
Isotype: IgG	Full Name: pericentriolar material 1	
Immunogen Catalog Number: AG13977	Calculated MW: 2024 aa, 228 kDa	
	Observed MW: 245-320 kDa	

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, NIH/3T3 cells, HEK-293 cells, A431 cells, U-251 cells, HT-1080 cells

IHC: human tonsillitis tissue,

IF/ICC: HepG2 cells,

Background Information

Pericentriolar material 1 (PCM1) is a component of centriolar satellites, which are electron dense granules scattered around centrosomes (PMID: 10579718). PCM1 is required for centrosome assembly and function. It acts as a scaffold to target several proteins to the centrosome in a dynein motor-dependent manner and regulate microtubular dynamics (PMID:18762586; 12403812). It is also involved in the biogenesis of cilia (PMID: 18772192). Chromosomal aberrations involving PCM1 gene are associated with papillary thyroid carcinomas and a variety of hematological malignancies, including atypical chronic myeloid leukemia and T-cell lymphoma. (PMID: 10980597; 16091753; 15805263; 16424865).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

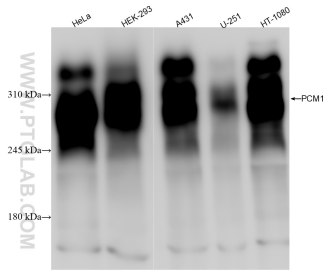
T: 4006900926

E: Proteintech-CN@ptglab.com

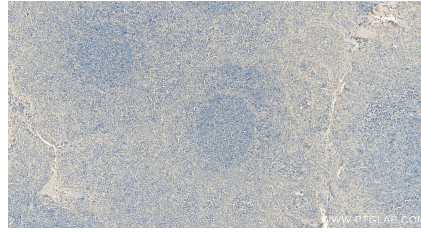
W: ptgcn.com

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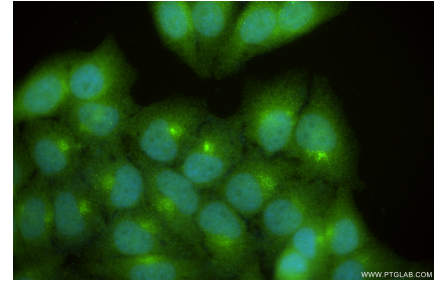
Selected Validation Data



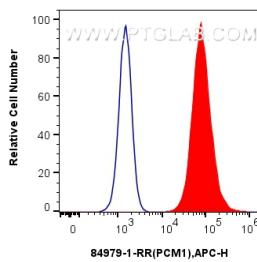
Various lysates were subjected to SDS PAGE followed by western blot with 84979-1-RR (PCM1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



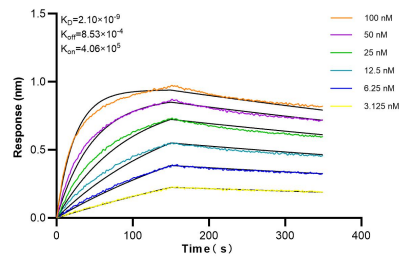
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84979-1-RR (PCM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PCM1 antibody (84979-1-RR, Clone: 242199A9) at dilution of 1:600 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1×10^6 K562 were intracellularly stained with 0.25 ug PCM1 Recombinant antibody (84979-1-RR, Clone:242199A9) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84979-1-RR against Human PCM1 were performed. The affinity constant is 21.0 nM.