

For Research Use Only

PCM1 Recombinant antibody, PBS Only

Catalog Number: 84979-1-PBS



Basic Information

Catalog Number:

84979-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13977

GenBank Accession Number:

BC000453

GeneID (NCBI):

5108

UNIPROT ID:

Q15154

Full Name:

pericentriolar material 1

Calculated MW:

2024 aa, 228 kDa

Observed MW:

245-320 kDa

Purification Method:

Protein A purification

CloneNo.:

242199A9

Applications

Tested Applications:

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

Species Specificity:

human, mouse

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

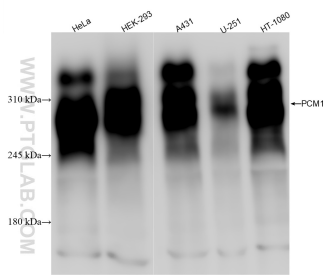
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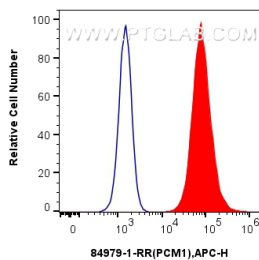
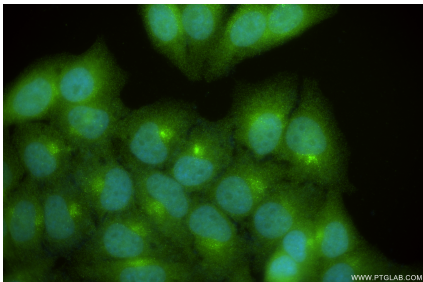
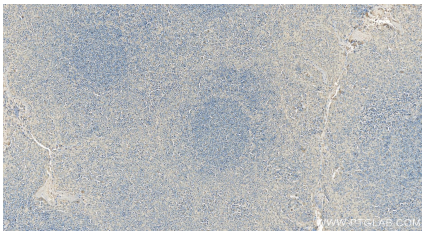
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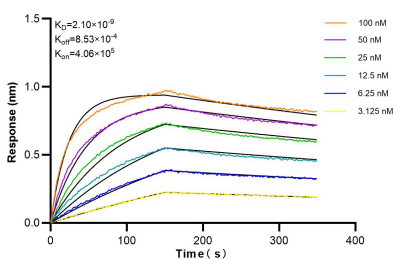
Selected Validation Data



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. This data was developed using the same antibody clone with 84979-1-PBS in a different storage buffer formulation.



1x10⁶ 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). This data was developed using the same antibody clone with 84979-1-PBS in a different storage buffer formulation.



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