

## Rabbit anti-Human PCM-1 Polyclonal Antibody | anti-PCM1 antibody

PCM-1 Antibody (Center)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                    |
|-----------|--------|------------|-------------------------------------------------------------------------------------------------|
| AAA287909 | Rabbit | Human      | Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

PCM-1; Polyclonal Antibody; PCM-1 Antibody (Center); Pericentriolar material 1 protein; hPCM-1; PCM1; anti-PCM1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity                                    | This PCM-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 632-661 amino acids from the Central region of human PCM-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification                            | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concentration                                  | Vial Concentration: 2 (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Positions                             | 632-661                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length                                | 530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-PCM1 antibody | IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clone Names                                    | RB18191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Antigen Source                                 | HUMAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Function                                       | Required for centrosome assembly and function. Essential for the correct localization of several centrosomal proteins including CEP250, CETN3, PCNT and NEK2. Required to anchor microtubules to the centrosome. Involved in the biogenesis of cilia.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cellular Location                              | Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Cytoplasmic granule. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cytoplasm, cytoskeleton, cilium basal body. Note=Recruitment to the centrosome requires microtubules and dynein. The majority of the protein dissociates from the centrosome during metaphase and subsequently localizes to the cleavage site in telophase Displaced from centriolar satellites and centrosome in response to cellular stress, such as ultraviolet light (UV) radiation or heat shock, in a process that requires p38 MAP kinase signaling |
| Tissue Location                                | Expressed in blood, bone marrow, breast, lymph node, ovary and thyroid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

IMAGES



**FCM/FACS (Flow Cytometry)**  
PCM-1 Antibody (Center) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human breast carcinoma reacted with PCM-1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of PCM-1 antibody (Center) in Ramos cell line lysates (35ug/lane). PCM-1 (arrow) was detected using the purified Pab.



**IF (Immunofluorescence)**  
Fluorescent image of A549 cell stained with PCM-1 Antibody (Center). A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with PCM-1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).PCM-1 immunoreactivity is localized to Centrosome significantly.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PCM1 antibody | PCM-1 is required for centrosome assembly and function. This protein is essential for the correct localization of several centrosomal proteins including CEP250, CETN3, PCNT and NEK2. The protein is required to anchor microtubules to the centrosome.                                                                                 |
| Product Categories/Family for anti-PCM1 antibody   | Cell Biology                                                                                                                                                                                                                                                                                                                             |
| References                                         | Balczon R., Bao L.J. Cell Biol. 124:783-793(1994)<br>Corvi R., Berger N.Oncogene 19:4236-4242(2000)<br>Dammermann A., Merdes A.J. Cell Biol. 159:255-266(2002)<br>Reiter A., Walz C.Cancer Res. 65:2662-2667(2005)<br>Murati A., Gelsi-Boyer V.Leukemia 19:1692-1696(2005)<br>Hames R.S., Crookes R.E.Mol. Biol. Cell 16:1711-1724(2005) |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 134142826                                      |
| NCBI GeneID                      | 5108                                           |
| NCBI Accession #                 | NP_006188.3                                    |
| NCBI GenBank Nucleotide #        | NM_006197.3                                    |
| UniProt Accession #              | Q15154; Q58F13; Q6P1K7; Q8NB85; Q9BWC1; Q9H4A2 |
| Molecular Weight                 | 228533                                         |
| NCBI Official Full Name          | pericentriolar material 1 protein              |
| NCBI Official Synonym Full Names | pericentriolar material 1                      |
| NCBI Official Symbol             | PCM1                                           |
| NCBI Official Synonym Symbols    | PTC4; RET/PCM-1                                |
| NCBI Protein Information         | pericentriolar material 1 protein              |
| UniProt Protein Name             | Pericentriolar material 1 protein              |

|                            |               |
|----------------------------|---------------|
| UniProt Gene Name          | PCM1          |
| UniProt Synonym Gene Names | PCM-1; hPCM-1 |
| UniProt Entry Name         | PCM1_HUMAN    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pcm-1-antibody-immunofluorescence-flow-cytometry-immunohistochemistry-western-blot-elisa/287909>