

Rabbit PCM1 Polyclonal Antibody | anti-PCM1 antibody

PCM1 Antibody

CATALOG # AAA327161	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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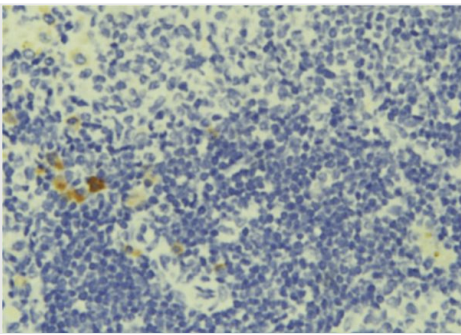
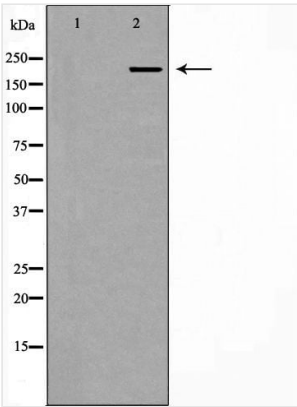
PRODUCT SYNONYMS

PCM1; Polyclonal Antibody; PCM1 Antibody; hPCM-1; PCM-1; pcm1; PCM1_HUMAN; Pericentriolar material 1; Pericentriolar material 1 protein; PTC4; anti-PCM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PCM1 antibody detects endogenous levels of total PCM1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1860
Applicable Applications for anti-PCM1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PCM1
Subcellular Location	Cytoplasm > Cytoskeleton. Cytoplasm > Cytoskeleton > Centrosome. Cytoplasmic Granule. Localizes to cytoplasmic granules which are enriched around the centrosome. This centrosomal enrichment requires microtubules and dynein. The majority of the protein dissociates from the centrosome during metaphase and subsequently localizes to the cleavage site in telophase.
Tissue Specificity	Expressed in blood, bone marrow, breast, lymph node, ovary and thyroid.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327161 at 1/100 staining Human lymph tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using PCM1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PCM1 antibody

Description: The protein encoded by this gene is a component of centriolar satellites, which are electron dense granules scattered around centrosomes. Inhibition studies show that this protein is essential for the correct localization of several centrosomal proteins, and for anchoring microtubules to the centrosome. Chromosomal aberrations involving this gene are associated with papillary thyroid carcinomas and a variety of hematological malignancies, including atypical chronic myeloid leukemia and T-cell lymphoma.

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.

Subunit Structure: Self-associates. Interacts with C2CD3 (By similarity). Interacts with BBS4, BBS8, CETN3, HAP1, NDE1, NDEL1, MAP1LC3B, GABARAPAL2, and GABARAP. Interacts with CEP131; the interaction increases in response to ultraviolet light (UV) radiation. Associates with microtubule; association to microtubule is reduced in response to cellular stress, such as ultraviolet light (UV) radiation or heat shock, in a process that requires p38 MAP kinase signaling. Interacts with CCDC113. Interacts with SSX2IP (By similarity). Interacts with CCDC13 (PubMed:24816561). Interacts with CEP290 (By similarity). Interacts with PARD6A (PubMed:20719959). Interacts with KIAA0753/OFIP, FOPNL/FOR20 and OFD1; the interaction with FOPNL/FOR20 and OFD1 may be mediated by KIAA0753/OFIP (PubMed:26643951).

Post-translational Modifications: Ubiquitinated. Undergoes monoubiquitination catalyzed by the E3 ubiquitin-protein ligase MIB1 in proliferating cells, preventing cilia formation. Monoubiquitination by MIB1 is inhibited in response to cellular stress, such as ultraviolet light (UV) radiation or heat shock, resulting in cilia formation initiation. Variant Ser-159 is phosphorylated.

Similarity: Belongs to the PCM1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	937500812
NCBI GeneID	5108
NCBI Accession #	NP_001302437.1
NCBI GenBank Nucleotide #	NM_001315508.1
UniProt Accession #	Q15154; Q58F13; Q6P1K7; Q8NB85; Q9BWC1; Q9H4A2; A6NNN6; B4DYD5; E7ETA6; E7EV56
Molecular Weight	Observed: 228 kDa Predicted: 229 kDa
NCBI Official Full Name	pericentriolar material 1 protein isoform 3
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

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://www.aaabiotech.com/polyclonal/pcm1-antibody-immunohistochemistry-western-blot-elisa/327161>