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PCM-1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7481b

Specification

PCM-1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q15154

PCM-1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5108

Other Names
Pericentriolar material 1 protein, PCM-1, hPCM-1, PCM1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7481b was selected from the C-term region of human PCM-1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCM-1 Antibody (C-term) Blocking Peptide - Protein Information

Name PCM1 (HGNC:8727)

Function
Required for centrosome assembly and function (PubMed:12403812, PubMed:15659651, PubMed:16943179). Essential for the correct localization of several centrosomal proteins including CEP250, CETN3, PCNT and NEK2 (PubMed:12403812, PubMed:15659651). Required to anchor microtubules to the centrosome (PubMed:12403812, PubMed:15659651). Also involved in cilium biogenesis by recruiting the BBSome, a ciliary protein complex involved in cilium biogenesis, to the centriolar satellites (PubMed:<a

href="http://www.uniprot.org/citations/20551181" target="_blank">20551181, PubMed:24121310, PubMed:27979967). Recruits the tubulin polyglutamylase complex (TPGC) to centriolar satellites (PubMed:34782749).

Cellular Location
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q8AV28}. 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.

PCM-1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PCM-1 Antibody (C-term) Blocking Peptide - Images

PCM-1 Antibody (C-term) Blocking Peptide - Background

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.

PCM-1 Antibody (C-term) Blocking Peptide - References

Balczon R., Bao L.J. Cell Biol. 124:783-793(1994)Corvi R., Berger N.Oncogene 19:4236-4242(2000)Dammermann A., Merdes A.J. Cell Biol. 159:255-266(2002) Reiter A., Walz C.Cancer Res. 65:2662-2667(2005) Murati A., Gelsi-Boyer V.Leukemia 19:1692-1696(2005)Hames R.S., Crookes R.E.Mol. Biol. Cell 16:1711-1724(2005)