


## Product datasheet

# Anti-PCM1 antibody [CL0206] ab154142

★★★★☆ 3 Abreviews 2 References 6 Images

### Overview

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<b>Product name</b>	Anti-PCM1 antibody [CL0206]
<b>Description</b>	Mouse monoclonal [CL0206] to PCM1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Human testis, cerebral cortex, fallopian tube and striated muscle tissues; RT4 cell lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	CL0206
<b>Isotype</b>	IgG1

### Applications

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## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab154142 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★ ★ ★ ☆ ☆ (1)	1/500 - 1/1000. Predicted molecular weight: 229 kDa.

## Target

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### 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.

### Tissue specificity

Expressed in blood, bone marrow, breast, lymph node, ovary and thyroid.

### Involvement in disease

Defects in PCM1 are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving PCM1 is found in thyroid papillary carcinomas. Translocation t(8;10)(p21.3;q11.2) with RET links the protein kinase domain of RET to the major portion of PCM1.

Note=A chromosomal aberration involving PCM1 is found in a variety of hematological malignancies including atypical chronic myeloid leukemia (atypical CML) and T-cell lymphoma. Translocation t(8;9)(p22;p24) with JAK2 links the protein kinase domain of JAK2 to the major portion of PCM1.

### Sequence similarities

Belongs to the PCM1 family.

### Post-translational modifications

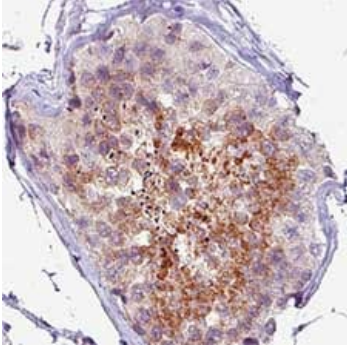
Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

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.

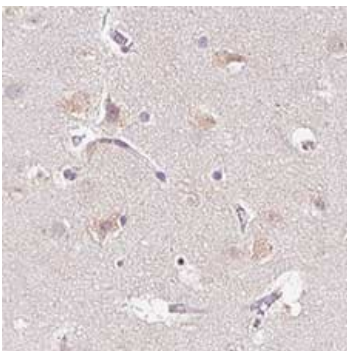
## Images

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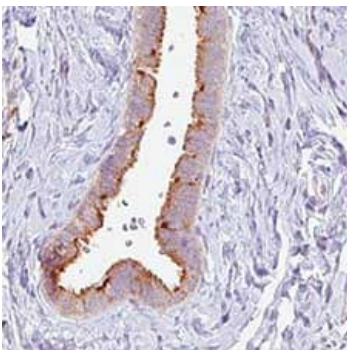
Immunohistochemical analysis of Human testis tissue labeling PCM1 with ab154142 at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCM1 antibody [CL0206] (ab154142)



Immunohistochemical analysis of Human cerebral cortex tissue labeling PCM1 with ab154142 at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCM1 antibody [CL0206] (ab154142)



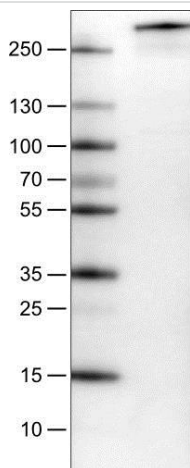
Immunohistochemical analysis of Human fallopian tube tissue labeling PCM1 with ab154142 at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCM1 antibody [CL0206] (ab154142)



Immunohistochemical analysis of Human dtriated muscle tissue labeling PCM1 with ab154142 at 1/200 dilution.

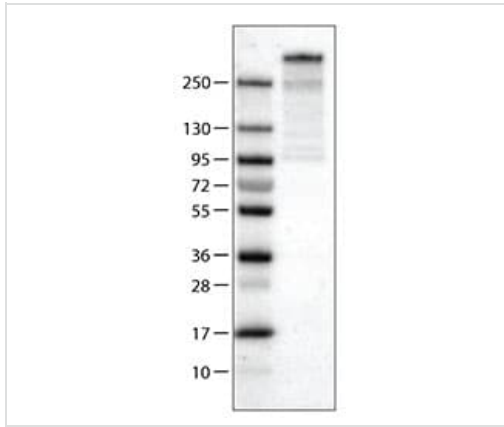
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCM1 antibody [CL0206] (ab154142)



Anti-PCM1 antibody [CL0206] (ab154142) at 1/1000 dilution + Human cell line U-251

**Predicted band size: 229 kDa**

Western blot - Anti-PCM1 antibody [CL0206] (ab154142)



Western blot - Anti-PCM1 antibody [CL0206]  
(ab154142)

Anti-PCM1 antibody [CL0206] (ab154142) at 1/1000 dilution + RT4  
cell lysate

**Predicted band size: 229 kDa**

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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