

# Anti-CENPC antibody [EPR15939] - BSA and Azide free ab232614

Recombinant RabMAb

5 Images

### Overview

<b>Product name</b>	Anti-CENPC antibody [EPR15939] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR15939] to CENPC - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Jurkat, A431, K562 and NIH/3T3 cell lysates. IHC-P: Human spleen tissue; Rat cardiac muscle tissue. Flow Cyt (intra): K562 cells.
<b>General notes</b>	<p>ab232614 is the carrier-free version of <a href="#">ab193666</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15939
<b>Isotype</b>	IgG

## Applications

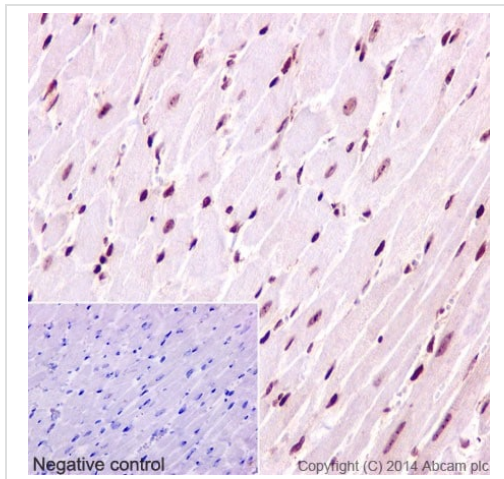
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab232614 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 107 kDa.
<b>IP</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Target

<b>Function</b>	Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. CENPC recruits DNA methylation and DNMT3B to both centromeric and pericentromeric satellite repeats and regulates the histone code in these regions.
<b>Sequence similarities</b>	Belongs to the CENPC family.
<b>Domain</b>	The MIF2 homology domain II targets centromeres and binds the alpha satellite DNA in vivo. The MIF2 homology domain III can induce CENPC dimerization/oligomerization.
<b>Cellular localization</b>	Nucleus. Chromosome > centromere > kinetochore. Localizes exclusively in the kinetochore domain of centromeres.

## Images

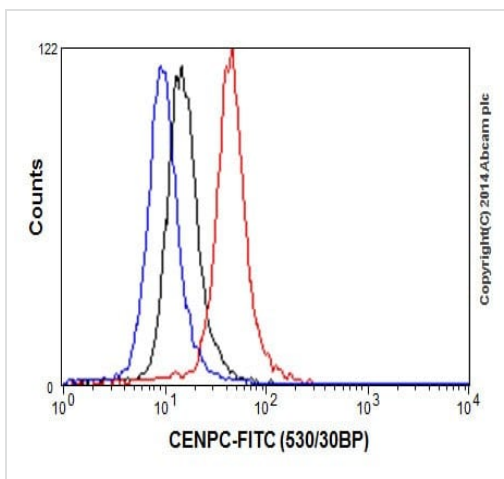


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPC antibody [EPR15939] - BSA and Azide free (ab232614)

Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling CENPC with **ab193666** at 1/1000 dilution (2µg/ml), followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab193666**).

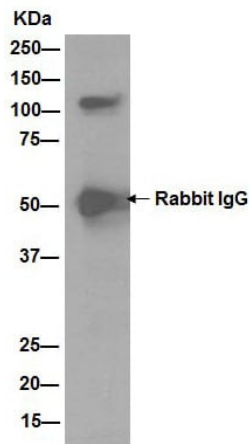
Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-CENPC antibody [EPR15939] - BSA and Azide free (ab232614)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed K562 cells labeling CENPC with **ab193666** at 1/400 dilution (red) compared with a rabbit monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab193666**).



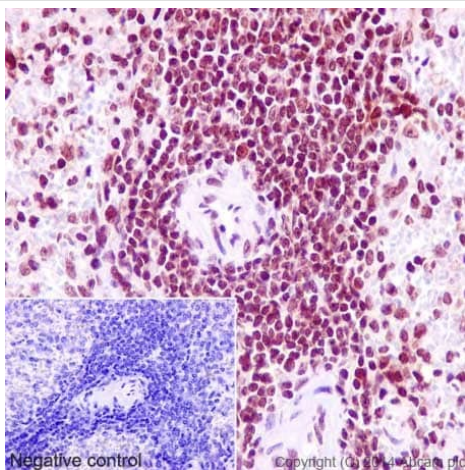
Immunoprecipitation - Anti-CENPC antibody  
[EPR15939] - BSA and Azide free (ab232614)

Western blot analysis of CENPC immunoprecipitated from Jurkat cell lysate using **ab193666** at 1/100 dilution.

Secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution.

Blocking/Dilution buffer: 5% NFDM/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab193666**).



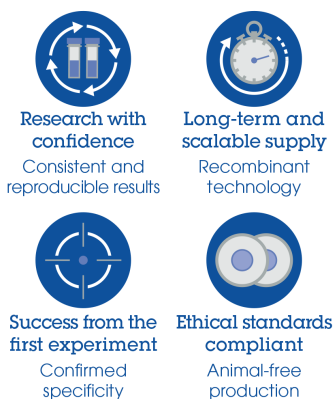
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CENPC antibody  
[EPR15939] - BSA and Azide free (ab232614)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling CENPC with **ab193666** at 1/1,000 dilution, followed by prediluted HRP polymer for Rabbit/Mouse IgG. Counter stained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab193666**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



Anti-CENPC antibody [EPR15939] - BSA and Azide free (ab232614)

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

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