

Product datasheet

Anti-CDCA5 antibody [EPR16331] - C-terminal ab192237

Recombinant RabMAb

[14 References](#) [7 Images](#)

Overview

Product name	Anti-CDCA5 antibody [EPR16331] - C-terminal
Description	Rabbit monoclonal [EPR16331] to CDCA5 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293, HeLa, Jurkat and SH-SY5Y cell lysates; Human stomach and human endometrium adenocarcinoma tissues; HeLa and 293 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16331
Isotype	IgG

Applications

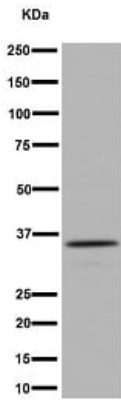
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab192237 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
WB		1/1000 - 1/10000. Detects a band of approximately 35 kDa (predicted molecular weight: 28 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Regulator of sister chromatid cohesion in mitosis stabilizing cohesin complex association with chromatin. May antagonize the action of WAPAL which stimulates cohesin dissociation from chromatin. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair. Required for efficient DNA double-stranded break repair.
Sequence similarities	Belongs to the sororin family.
Domain	The KEN box is required for the association with the APC/C complex.
Post-translational modifications	Phosphorylated. Phosphorylation, as cells enter mitosis, disrupts the interaction with PDS5A and relieves the inhibition of WAPAL by CDCA5. Ubiquitinated by the APC/C complex in G1, leading to its degradation.
Cellular localization	Nucleus. Chromosome. Cytoplasm. Associates with nuclear chromatin from S phase until metaphase and is released in the cytoplasm upon nuclear envelope breakdown.

Images



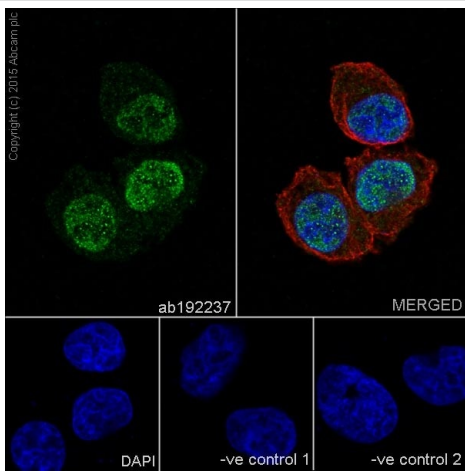
Western blot - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)

Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237) at 1/1000 dilution + SH-SY5Y cell lysate at 10 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

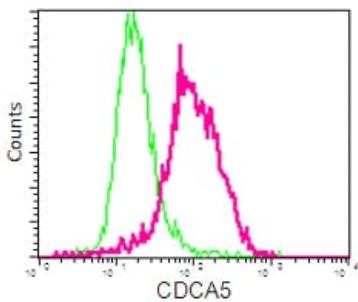
Predicted band size: 28 kDa



Immunocytochemistry/ Immunofluorescence - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)

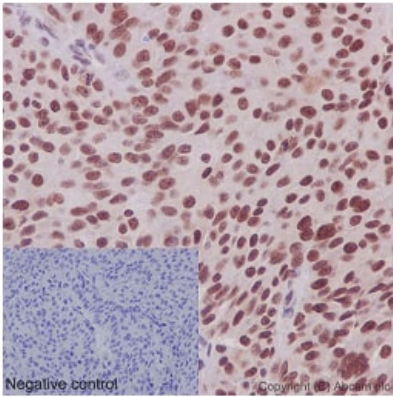
Immunofluorescent analysis of HeLa cells (4% Paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized) labeling CDCA5 with ab192237 at 1/100 dilution (5 μ g/mL) followed by Goat anti rabbit IgG (AlexaFluor® 488) (**ab150077**) secondary at 1/200 dilution and counter-stained with DAPI (blue).

Negative controls: anti-CDCA5 at 1/100 dilution, Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) at 1/400 dilution.



Flow Cytometry (Intracellular) - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)

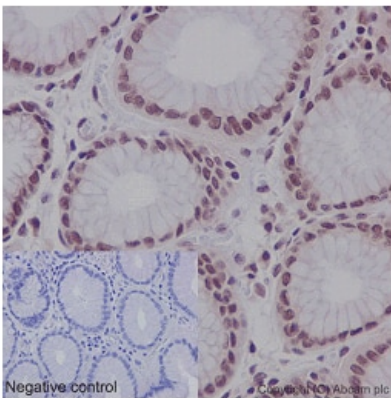
Intracellular flow cytometric analysis of 293 cells (paraformaldehyde-fixed, 2%) labeling CDCA5 with ab192237 at 1/100 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Immunohistochemical analysis of paraffin-embedded Human endometrium adenocarcinoma tissue labeling CDCA5 with ab192237 at 1/100 (5 µg/ml) dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

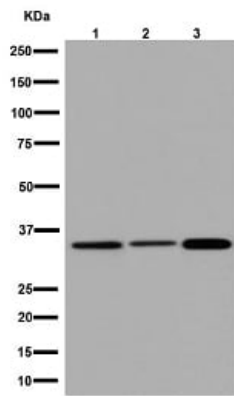
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)



Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling CDCA5 with ab192237 at 1/100 (5 µg/ml) dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)



Western blot - Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)

All lanes : Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237) at 1/10000 dilution

Lane 1 : 293 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 28 kDa

Why choose a recombinant antibody?



Anti-CDCA5 antibody [EPR16331] - C-terminal (ab192237)

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

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