

Product datasheet

Anti-CHD3 antibody [EPNCIR110A] - BSA and Azide free ab240942


KO VALIDATED

Recombinant

RabMAb

6 Images

Overview

Product name	Anti-CHD3 antibody [EPNCIR110A] - BSA and Azide free
Description	Rabbit monoclonal [EPNCIR110A] to CHD3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Rat, Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild Type HAP1 cell lysates. Raji and Y79 cell lysate. IHC-P: Human breast and ovary tissues. Flow Cyt (intra): HeLa cells.
General notes	<p>ab240942 is the carrier-free version of ab109195.</p> <p>Our carrier-free 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 conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <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[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] 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"> - 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>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

This antibody was developed as part of a collaboration between Epitomics, the National Cancer Institute's Center for Cancer Research and the lab of Gordon Hager. [View antibodies from NCI Center for Cancer Research Collaboration](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPNCIR110A
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab240942 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 260 kDa (predicted molecular weight: 227 kDa).
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat to 98 degrees, allow to cool for 10-20 minutes.

Application notes Is unsuitable for IP.

Target

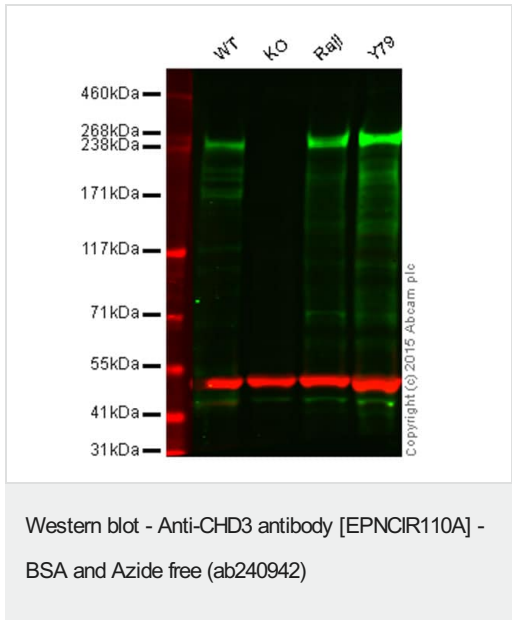
Function Component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin by deacetylating histones. Required for anchoring centrosomal pericentrin in both interphase and mitosis, for spindle organization and centrosome integrity.

Tissue specificity	Widely expressed.
Sequence similarities	<p>Belongs to the SNF2/RAD54 helicase family.</p> <p>Contains 2 chromo domains.</p> <p>Contains 1 helicase ATP-binding domain.</p> <p>Contains 1 helicase C-terminal domain.</p> <p>Contains 2 PHD-type zinc fingers.</p>
Cellular localization	Nucleus. Cytoplasm > cytoskeleton > centrosome. Associates with centrosomes in interphase and mitosis.

Images



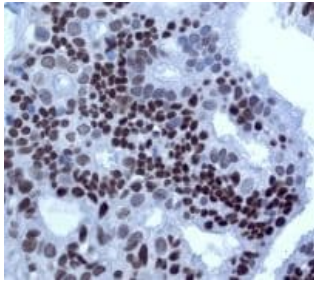
Immunofluorescent staining of HeLa cells using [ab109195](#) at a dilution of 1/100. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109195](#))



Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: CHD3 knockout HAP1 cell lysate (20 µg)
Lane 3: Raji cell lysate (20 µg)
Lane 4: Y79 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - [ab109195](#) observed at 245 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

[ab109195](#) was shown to specifically react with CHD3 when CHD3 knockout samples were used. Wild-type and CHD3 knockout samples were subjected to SDS-PAGE. [ab109195](#) and [ab8245](#) (loading control to GAPDH) were diluted 1/1000 and 1/2000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.

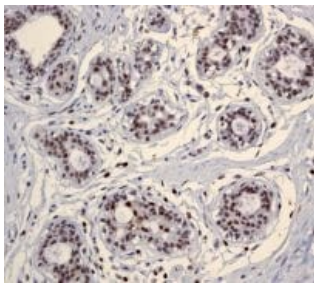
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab109195](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD3 antibody
[EPNCIR110A] - BSA and Azide free (ab240942)

Immunohistochemical staining of paraffin-embedded Human ovary tissue using **ab109195** at a dilution of 1/100. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109195**)

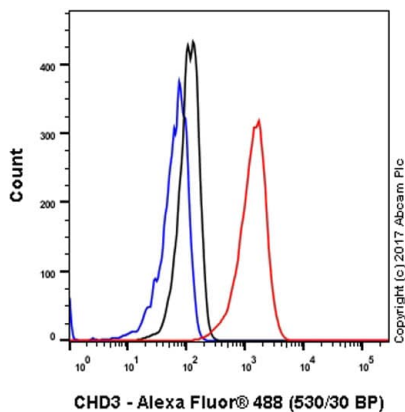
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD3 antibody
[EPNCIR110A] - BSA and Azide free (ab240942)

Immunohistochemical staining of paraffin-embedded Human breast tissue using **ab109195** at a dilution of 1/100. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109195**)

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-CHD3 antibody
[EPNCIR110A] - BSA and Azide free (ab240942)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling CHD3 with purified **ab109195** at 1/230 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) (**ab172730**) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109195**)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

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