


## Product datasheet

### Anti-CHD8 antibody ab114126

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#### Overview

<b>Product name</b>	Anti-CHD8 antibody
<b>Description</b>	Rabbit polyclonal to CHD8
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rabbit, Guinea pig, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Orangutan, Elephant 
<b>Immunogen</b>	Synthetic peptide, corresponding to a region within amino acids 325-350 of Human CHD8 (NP_065971.2)
<b>Positive control</b>	HeLa whole cell lysate ( <a href="#">ab150035</a> )
<b>General notes</b>	<p>Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.</p> <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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	<p>pH: 7</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituent: 99.91% Tris citrate/phosphate</p> <p>pH: 7-8</p>
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab114126 was affinity purified using an epitope specific to CHD8 immobilized on a solid support.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

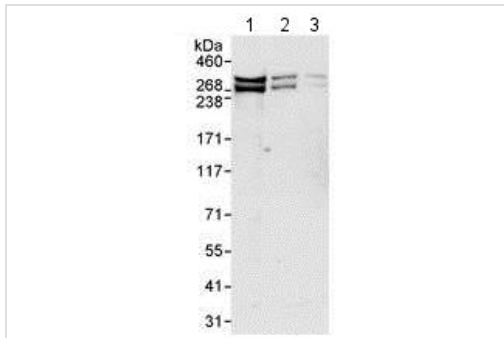
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab114126 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/2000 - 1/10000. Predicted molecular weight: 291 kDa.
<b>IP</b>		Use at 2-5 µg/mg of lysate.
<b>IHC-P</b>		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	DNA helicase that acts as a chromatin remodeling factor and regulates transcription. Acts as a transcription repressor by remodeling chromatin structure and recruiting histone H1 to target genes. Suppresses p53/TP53-mediated apoptosis by recruiting histone H1 and preventing p53/TP53 transactivation activity. Acts as a negative regulator of Wnt signaling pathway by regulating beta-catenin (CTNNB1) activity. Negatively regulates CTNNB1-targeted gene expression by being recruited specifically to the promoter regions of several CTNNB1 responsive genes. Involved in both enhancer blocking and epigenetic remodeling at chromatin boundary via its interaction with CTCF. Acts as a suppressor of STAT3 activity by suppressing the LIF-induced STAT3 transcriptional activity. Also acts as a transcription activator via its interaction with ZNF143 by participating to efficient U6 RNA polymerase III transcription.
<b>Sequence similarities</b>	Belongs to the SNF2/RAD54 helicase family. CHD8 subfamily. Contains 2 chromo domains. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
<b>Post-translational modifications</b>	Sumoylated.
<b>Cellular localization</b>	Nucleus. Localizes to the promoter regions of several CTNNB1-responsive genes. Also present at known CTCF target sites.

## Images



Western blot - Anti-CHD8 antibody (ab114126)

**All lanes :** Anti-CHD8 antibody (ab114126) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

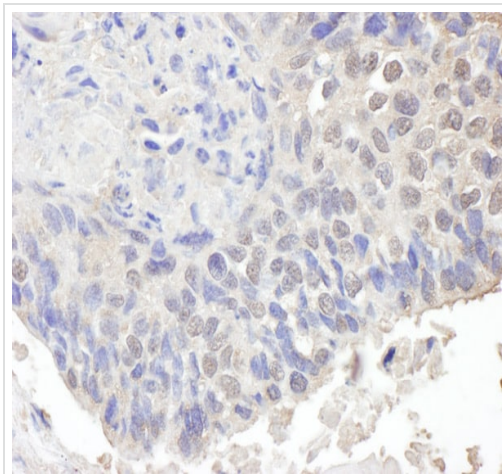
**Lane 2 :** HeLa whole cell lysate at 15 µg

**Lane 3 :** HeLa whole cell lysate at 5 µg

Developed using the ECL technique.

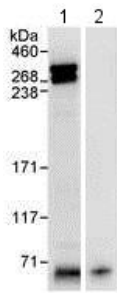
**Predicted band size:** 291 kDa

**Exposure time:** 30 seconds



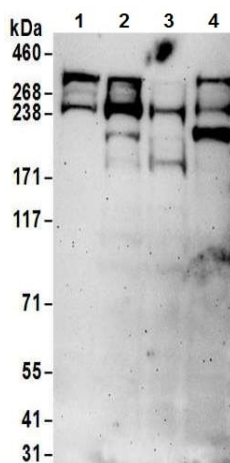
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CHD8 antibody (ab114126)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling CHD8 with ab114126 at 1/1000 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-CHD8 antibody  
(ab114126)

ab114126 at 3ug/mg of lysate detecting CHD8 by immunoprecipitation (lane 1). 1mg of HeLa whole cell lysate was used, 20% of immunoprecipitate was loaded. Lane 2: IgG control. Detection: chemiluminescence. Exposure time: 30 seconds.



Western blot - Anti-CHD8 antibody (ab114126)

**All lanes :** Anti-CHD8 antibody (ab114126) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate

**Lane 2 :** 293T whole cell lysate

**Lane 3 :** Jurkat whole cell lysate

**Lane 4 :** TCMK-1 whole cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 291 kDa

**Exposure time:** 3 minutes

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

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