abcam

Product datasheet

Anti-Chp1 antibody ab18191

1 Abreviews 14 References 3 Images

Overview

Product name	Anti-Chp1 antibody
Description	Rabbit polyclonal to Chp1
Host species	Rabbit
Tested applications	**Suitable for:** ChIP, WB
Species reactivity	**Reacts with:** Schizosaccharomyces pombe
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in S. pombe whole cell lysate.
General notes	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. 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&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab18191 in the following tested applications.

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

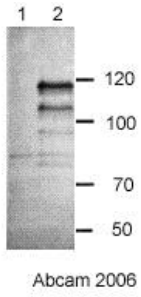
Application	Abreviews	Notes
ChIP	★★★★★ (1)	Use 2.5µg for 10^7 cells.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 109 kDa (predicted molecular weight: 109 kDa).

Target

Relevance Chp1 a chromodomain protein associates with the *S. pombe* mating type locus and telomeres. Chp1 localization to heterochromatin depends on its chromodomain and the C-terminal domain of the protein. Chp1 and centromeric siRNAs are components of the RITS (RNA-induced initiation of transcriptional gene silencing) complex. The association of RITS with centromeres is linked to Dicer activity, which is required to cleave centromeric transcripts to produce short interfering RNAs that actively recruit components of heterochromatin to centromeres.

Cellular localization Nuclear

Images



Western blot - Anti-Chp1 antibody (ab18191)

This image is courtesy of Danesh Mbazed's Laboratory, Harvard, Boston.

All lanes : Anti-Chp1 antibody (ab18191) at 1 µg/ml

Lane 1 : *S. pombe chp1Δ* lysate

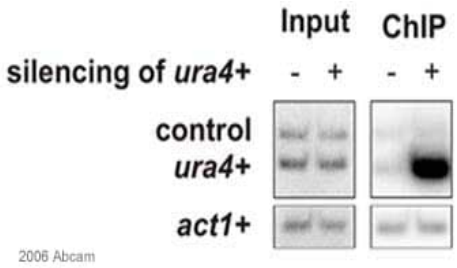
Lane 2 : *S. pombe* wildtype lysate

Predicted band size: 109 kDa

Observed band size: 109 kDa

Additional bands at: 102 kDa (possible degradation product)

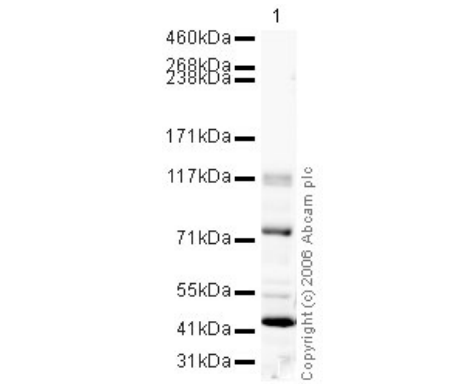
ab18191 specifically recognises Chp1 at 109 kDa in wildtype *S. pombe* lysate but not in *chp1Δ* lysate.



ChIP - Anti-Chp1 antibody (ab18191)

X-ChIP performed with ab18191 on Schizosaccharomyces pombe Cell lysate (whole cell). 5µl antibody were used per 500µl of chromatin/cell lysate according to standard S. pombe ChIP protocols. Protein-A Sepharose was used to recover the ChIPs. In the positive control the researcher specifically induced silencing of the ura4+ gene. For the negative control the researcher performed multiplex PCR with primers amplifying ura4+ and an un-silenced gene. In addition, act1+ was amplified in a separate PCR reaction. Chp1 only binds to ura4+ (and only if silencing is induced).

This image is courtesy of an Abreview submitted by **Marc B?** on **9 February 2006**



Western blot - Anti-Chp1 antibody (ab18191)

Anti-Chp1 antibody (ab18191) at 1 µg/ml + S.pombe Whole Cell Lysate at 20 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 109 kDa
Observed band size: 115 kDa
Additional bands at: 75&42 kDa. We are unsure as to the identity of these extra bands.

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