

## Product datasheet

# Anti-Chp1 antibody ab18191

★★★★★ 1 Abreviews 13 References 3 Images

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-Chp1 antibody   |
| <b>Description</b>         | Rabbit polyclonal to Chp1  |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> ChIP, WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Schizosaccharomyces pombe  |
| <b>Immunogen</b>           | Synthetic peptide conjugated to KLH derived from within residues 900 to the C-terminus of Schizosaccharomyces pombe Chp1. Read Abcam's proprietary immunogen policy (Peptide available as <a href="#">ab19117</a> .) |
| <b>Positive control</b>    | This antibody gave a positive signal in S. pombe whole cell lysate.  |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | 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. |
| <b>Storage buffer</b>       | Preservative: 0.02% Sodium Azide<br>Constituents: 1% BSA, PBS, pH 7.4  |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |

### Applications

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        | ★★★★★     | Use 2.5µg for 10 <sup>7</sup> cells. |

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| WB          |           | Use a concentration of 1 µg/ml. Detects a band of approximately 109 kDa (predicted molecular weight: 109 kDa). |

## Target

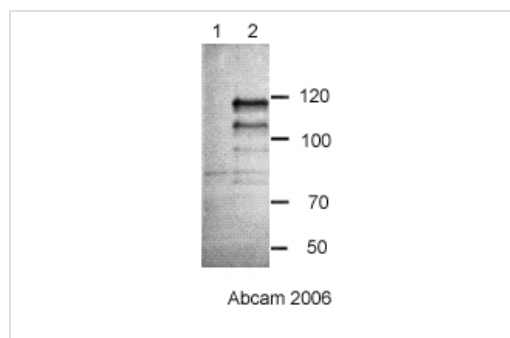
### Relevance

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

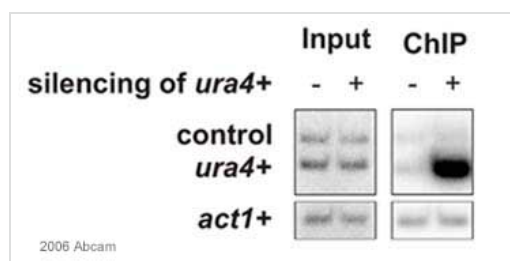
**Lane 2 :** *S. pombe* wildtype lysate

**Predicted band size:** 109 kDa

**Observed band size:** 109 kDa

**Additional bands at:** 102 kDa (possible degradation product)

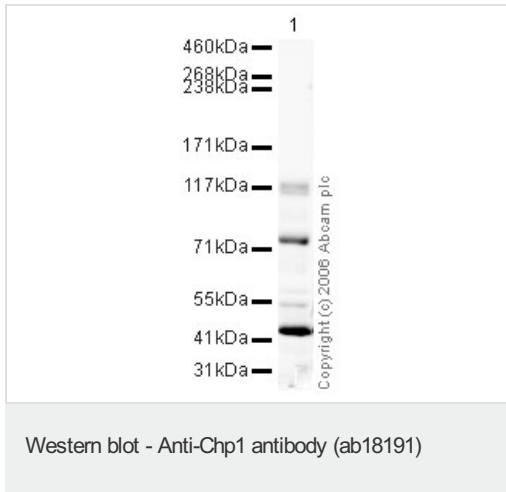
ab18191 specifically recognises Chp1 at 109 kDa in wildtype *S. pombe* lysate but not in *chp1Δ* lysate.



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**



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

[why is the actual band size different from the predicted?](#)

**Additional bands at:** 75&42 kDa. We are unsure as to the identity of these extra bands.

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