# CHP1 (B-10): sc-390835



The Power to Question

#### **BACKGROUND**

Human CHP1 and the *C. elegans* homolog Chp are CHORD domain-containing proteins that are largely related, and their corresponding genes are evolutionarily conserved among various eukaryotic organisms. The unique CHORD domain is characterized as 60 amino acids in length, and contains six highly conserved cysteine residues, two histidine residues and a distinct Zn<sup>2+</sup>-binding domain. CHP1 and the other metazoan orthologs have tandem CHORD domains that are located at both the N- and C- termini. These proteins are implicated in germline development and embryogenesis as mutations affecting the CHORD domain of the nematode protein Chp result in semisterility and embryonic lethality.

# **REFERENCES**

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- 3. Doe, C.L., Wang, G., Chow, C., Fricker, M.D., Singh, P.B. and Mellor, E.J. 1998. The fission yeast chromo domain encoding gene CHP1+ is required for chromosome segregation and shows a genetic interaction with α-tubulin. Nucleic Acids Res. 26: 4222-4229.
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## **CHROMOSOMAL LOCATION**

Genetic locus: CHORDC1 (human) mapping to 11q14.3; Chordc1 (mouse) mapping to 9 A2.

## **SOURCE**

CHP1 (B-10) is a mouse monoclonal antibody raised against amino acids 29-328 mapping within an internal region of CHP1 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g \ lgG_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

CHP1 (B-10) is recommended for detection of CHP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CHP1 siRNA (h): sc-106753, CHP1 siRNA (m): sc-142331, CHP1 shRNA Plasmid (h): sc-106753-SH, CHP1 shRNA Plasmid (m): sc-142331-SH, CHP1 shRNA (h) Lentiviral Particles: sc-106753-V and CHP1 shRNA (m) Lentiviral Particles: sc-142331-V.

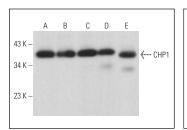
Molecular Weight of CHP1: 37 kDa.

Positive Controls: CHP1 (m): 293T Lysate: sc-119247, human heart extract: sc-363763 or human liver extract: sc-363766.

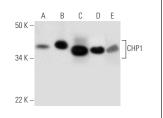
## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

#### **DATA**







CHP1 (B-10): sc-390835. Western blot analysis of CHP1 expression in non-transfected: sc-117752 (A) and mouse CHP1 transfected: sc-119247 (B) 293T whole cell lysates and mouse liver (C), human liver (D) and human heart (E) tissue extracts.

### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.