

CHP1 (C-18): sc-11569

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 6 highly conserved cysteine residues, 2 histidine residues and a distinct Zn²⁺-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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- Shirasu, K., Lahaye, T., Tan, M.W., Zhou, F., Azevedo, C. and Schulze-Lefert, P. 1999. A novel class of eukaryotic zinc-binding proteins is required for disease resistance signaling in barley and development in *C. elegans*. *Cell* 99: 355-366.

CHROMOSOMAL LOCATION

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

SOURCE

CHP1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CHP1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11569 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

CHP1 (C-18) is recommended for detection of CHP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

CHP1 (C-18) is also recommended for detection of CHP1 in additional species, including equine, canine, bovine and porcine.

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.

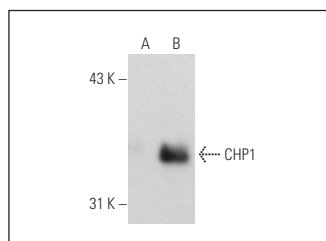
Molecular Weight of CHP1: 37 kDa.

Positive Controls: CHP1 (m): 293T Lysate: sc-119247.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CHP1 (C-18): sc-11569. Western blot analysis of CHP1 expression in non-transfected: sc-117752 (A) and mouse CHP1 transfected: sc-119247 (B) 293T whole cell lysates.

RESEARCH USE

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

MONOS
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Try **CHP1 (B-6): sc-390834** or **CHP1 (B-10): sc-390835**, our highly recommended monoclonal alternatives to CHP1 (C-18).