

CHP1 (m): 293T Lysate: sc-119247

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 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

1. Freialdenhoven, A., et al. 1994. Nar-1 and Nar-2, two loci required for Mla12-specified race-specific resistance to powdery mildew in barley. *Plant Cell* 6: 983-994.
2. Doe, C.L., et al. 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.
3. van der Biezen, E.A. and Jones, J.D. 1998. The NB-Arc domain: a novel signalling motif shared by plant resistance gene products and regulators of cell death in animals. *Curr. Biol.* 8: 226-227.
4. Vaux, D.L. and Korsmeyer, S.J. 1999. Cell death in development. *Cell* 96: 245-254.
5. Shirasu, K., et al. 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 (mouse) mapping to 9 A2.

PRODUCT

CHP1 (m): 293T Lysate represents a lysate of mouse CHP1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

CHP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CHP1 antibodies. Recommended use: 10-20 μ l per lane.

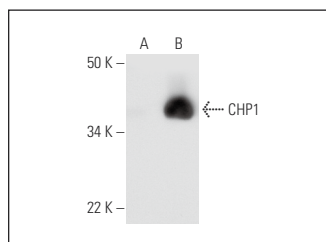
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CHP1 (B-11): sc-390898 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CHP1 expression in CHP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CHP1 (B-11): sc-390898. 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.

PROTOCOLS

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