SANTA CRUZ BIOTECHNOLOGY, INC.

HOP-1 (cN-17): sc-9348



The Power to Question

BACKGROUND

Human presenilin proteins have been implicated in the development of Alzheimer's disease. Several presenilin homologs have been identified in *C. elegans*, including SEL-12, HOP-1 and SPE-4. Reducing or eliminating SEL-12 activity causes an egg-laying defective (Egl) phenotype in *C. elegans*. HOP-1 activity can rescue the egg-laying defect of the SEL-12 mutant. SEL-12 and HOP-1 are therefore thought to act as redundant promoters of Notch-pathway signaling by facilitating the activity of LIN-12 and GLP-1. SPE-4 is an integral membrane protein localized within specific organelles responsible for spermatogenesis. Mutation of SPE-4 prevents cytokinesis during meiosis, preventing spermatogenesis.

REFERENCES

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SOURCE

HOP-1 (cN-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of HOP-1 of *Caenorhabditis elegans* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-9348 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

HOP-1 (cN-17) is recommended for detection of HOP-1 of *Caenorhabditis elegans* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

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) Immunofluo-rescence: 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.

STORAGE

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

PROTOCOLS

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