cep-1 (cC-18): sc-135460



The Power to Question

BACKGROUND

p53, a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosis-related genes in response to stress signals, thereby influencing programmed cell death, cell differentiation and cell cycle control mechanisms. cep-1 (p53-like protein), is the 644 amino acid *C. elegans* homolog of mammalian tumor suppressor p53. While the DNA-binding domains of p53 and cep-1 share little homology, both recognize nearly identical DNA sequences. Ubiquitously expressed in embryos, cep-1 is required to activate apoptosis of germ cells in response to genotoxic stress, and additionally activates *C. elegans* pgh-1, the homolog of Gas1 (growth arrest-specific 1). Together, cep-1 and pgh-1 mediate embryonic viability of mutations of TELO2, which is an essential gene in the regulation of checkpoint responses. Overexpression of cep-1 has been found to cause widespread caspase-independent cell death.

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SOURCE

cep-1 (cC-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of cep-1 of *C. elegans* origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135460 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cep-1 (cC-18) is recommended for detection of cep-1 of *Caenorhabditis elegans* origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of cep-1: 75 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

RESEARCH USE

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

PROTOCOLS

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com