SANTA CRUZ BIOTECHNOLOGY, INC.

CARP-1 (C-20): sc-69263

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

CARP-1 (cell division cycle and apoptosis regulator 1), also known as CCAR1 or DIS, is a 1,150 amino acid protein that localizes to the perinuclear region of the cytoplasm and contains one SAP domain. Expressed in several epithelial cancer cell lines, including breast, colon, prostate and leukemia, CARP-1 is involved in apoptotic signaling, as well as in cell cycle progression and cell proliferation via interaction with c-Myc and cyclin B1. CARP-1 is subject to DNA damage-induced phosphorylation, probably by ATM or ATR. The gene encoding CARP-1 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

CHROMOSOMAL LOCATION

Genetic locus: CCAR1 (human) mapping to 10q21.3; Ccar1 (mouse) mapping to 10 B4.

SOURCE

CARP-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CARP-1 of human 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-69263 P, (100 µg 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

CARP-1 (C-20) is recommended for detection of CARP-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CARP-1 (C-20) is also recommended for detection of CARP-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CARP-1 siRNA (h): sc-77153, CARP-1 siRNA (m): sc-77154, CARP-1 shRNA Plasmid (h): sc-77153-SH, CARP-1 shRNA Plasmid (m): sc-77154-SH, CARP-1 shRNA (h) Lentiviral Particles: sc-77153-V and CARP-1 shRNA (m) Lentiviral Particles: sc-77154-V.

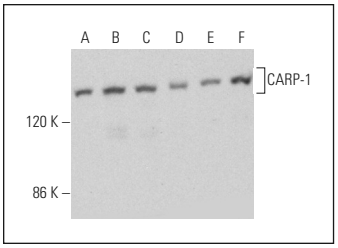
Molecular Weight of CARP-1: 130 kDa.

Positive Controls: MDA-MB-231 cell lysate: sc-2232, T-47D cell lysate: sc-2293 or SW480 cell lysate: sc-2219.

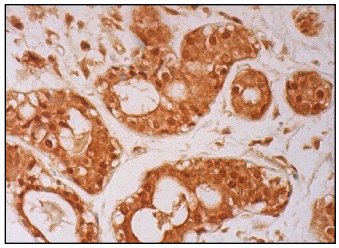
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



CARP-1 (C-20): sc-69263. Western blot analysis of CARP-1 expression in MDA-MB-231 (**A**), T-47D (**B**), SW480 (**C**), PANC-1 (**D**) and DU 145 (**E**) whole cell lysates and HeLa nuclear extract (**F**).



CARP-1 (C-20): sc-69263. Immunoperoxidase staining of formalin fixed, paraffin-embedded hluman breast tissue showing cytoplasmic and nuclear staining of glandular cells and myoepithelial cells.

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.