

Cdc40 (C-20): sc-68265

BACKGROUND

Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by the proteolysis of cyclins. The cell division control (Cdc) genes are required at various points in the cell cycle. Cdc40, also known as pre-mRNA-processing factor 17 (PRPF17) or EH-binding protein 3 (EHB3), is a 579 amino acid nuclear protein. Cdc40 is essential for the catalytic step II of the pre-mRNA splicing process, in which Cdc40 associates with the spliceosome C complex. Cdc40 contains seven WD repeats, which are important in protein-protein interactions. Cdc40 has sequence similarity to the yeast protein Prp17, which is involved in pre-mRNA splicing and cell cycle progression. The sequence similarity between the mammalian Cdc40 and the yeast Prp17 may indicate an additional role in cell cycle progression for mammalian Cdc40.

CHROMOSOMAL LOCATION

Genetic locus: CDC40 (human) mapping to 6q21; Cdc40 (mouse) mapping to 10 B1.

SOURCE

Cdc40 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Cdc40 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-68265 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

Cdc40 (C-20) is recommended for detection of Cdc40 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Cdc40 (C-20) is also recommended for detection of Cdc40 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Cdc40 siRNA (h): sc-72837, Cdc40 siRNA (m): sc-72838, Cdc40 shRNA Plasmid (h): sc-72837-SH, Cdc40 shRNA Plasmid (m): sc-72838-SH, Cdc40 shRNA (h) Lentiviral Particles: sc-72837-V and Cdc40 shRNA (m) Lentiviral Particles: sc-72838-V.

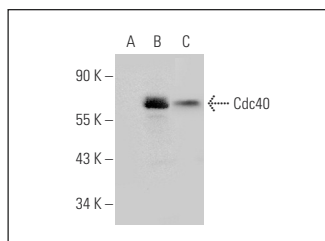
Molecular Weight of Cdc40: 65 kDa.

Positive Controls: Cdc40 (h): 293T Lysate: sc-111958 or COLO 320DM cell lysate: sc-2226

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



Cdc40 (C-20): sc-68265. Western blot analysis of Cdc40 expression in non-transfected 293T: sc-117752 (A), human Cdc40 transfected 293T: sc-111958 (B) and COLO 320DM (C) whole cell lysates.

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.



Try **Cdc40 (H-12): sc-398281** or **Cdc40 (8): sc-136528**, our highly recommended monoclonal alternatives to Cdc40 (C-20).