CdcA1 (H-300): sc-98369



The Power to Question

BACKGROUND

Kinetochores play an essential role in chromosome segregation by forming dynamic connections with spindle microtubules. Cell division associated 1 (CdcA1) is a member of the evolutionarily conserved centromere protein complex along with kinetochore associated 2 (KNTC2), and these two proteins are involved in the regulation of cell-cycle progression. The novel human cell cycle genes CdcA1 through CdcA8 are co-expressed with the well-known cell cycle genes including Cdc2, Cdc7, Cdc23, cyclin and MCAK. Both CdcA1 and KNTC2 are implicated in non-small cell lung carcinomas (NSCLC), and selective suppression of CdcA1 or KNTC2 activity and/or inhibition of the CdcA1-KNTC2 complex formation may be a promising therapeutic target for treatment of lung cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NUF2 (human) mapping to 1q23.3; Nuf2 (mouse) mapping to 1 H2.3.

SOURCE

CdcA1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of CdcA1 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.

APPLICATIONS

CdcA1 (H-300) is recommended for detection of CdcA1 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).

CdcA1 (H-300) is also recommended for detection of CdcA1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CdcA1 siRNA (h): sc-72839, CdcA1 siRNA (m): sc-72840, CdcA1 shRNA Plasmid (h): sc-72839-SH, CdcA1 shRNA Plasmid (m): sc-72840-SH, CdcA1 shRNA (h) Lentiviral Particles: sc-72839-V and CdcA1 shRNA (m) Lentiviral Particles: sc-72840-V.

Molecular Weight of CdcA1: 53 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-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.



Try CdcA1 (E-6): sc-271251, our highly recommended monoclonal alternative to CdcA1 (H-300).

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