

# CdcA7 (K-16): sc-246238

## 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. CdcA7 (cell division cycle associated 7), also known as JPO1, is a 371 amino acid nuclear protein that may function as a transcriptional regulator. Although ubiquitously expressed in normal tissue with higher expression in thymus and small intestine, CdcA7 is suggested to be overexpressed in a large number of tumors, in blood from patients with acute myelogenous leukemia (AML) and in chronic myelogenous leukemia (CML) blast crisis. CdcA7 is thought to participate in c-Myc-mediated cell transformation and is therefore considered a novel c-Myc-responsive gene. CdcA7 exists as four alternatively spliced isoforms and is encoded by a gene located on human chromosome 2q31.1.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDCA7 (human) mapping to 2q31.1; Cdca7 (mouse) mapping to 2 C3.

## SOURCE

CdcA7 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CdcA7 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-246238 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CdcA7 (K-16) is recommended for detection of CdcA7 of mouse, rat and human 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); non cross-reactive with CdcA7L.

CdcA7 (K-16) is also recommended for detection of CdcA7 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CdcA7 siRNA (h): sc-94355, CdcA7 siRNA (m): sc-142219, CdcA7 shRNA Plasmid (h): sc-94355-SH, CdcA7 shRNA Plasmid (m): sc-142219-SH, CdcA7 shRNA (h) Lentiviral Particles: sc-94355-V and CdcA7 shRNA (m) Lentiviral Particles: sc-142219-V.

Molecular Weight of CdcA7: 47 kDa.

## 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) 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.