SANTA CRUZ BIOTECHNOLOGY, INC.

CDK2AP2 (G-13): sc-161474



The Power to Question

BACKGROUND

CDK2AP1 (cyclin-dependent kinase 2 associated protein 1), also designated p12 and DOC-1, is a growth suppressor that binds to and inhibits DNA pol α /primase. When bound, CDK2AP1 affects the initiation step, but not the elongation phase, of replication. CDK2AP1 also binds to cyclin-dependent kinase 2 (Cdk2) and targets it for proteolysis. CDK2AP1 promotes cell cycle arrest by regulating the S phase of the cycle, and may trigger apoptosis. The growth factor TGF β 1 transcriptionally-induces CDK2AP1 expression, which, in turn, mediates the growth inhibitory activity of TGF β 1 by modulating Cdk2 activities and pRB phosphorylation. Due to its ability to trigger apoptosis, CDK2AP1 is thought to function as a tumor suppressor. CDK2AP2 (cyclin-dependent kinase 2 associated protein 2), also known as p14 or DOC-1R, is a 126 amino acid ubiquitously expressed protein that interacts with CDK2AP1 and may play a role in growth and tumor suppression.

REFERENCES

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STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: CDK2AP2 (human) mapping to 11q13.1; Cdk2ap2 (mouse) mapping to 19 A.

SOURCE

CDK2AP2 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CDK2AP2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161474 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CDK2AP2 (G-13) is recommended for detection of CDK2AP2 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 CDK2AP1.

Suitable for use as control antibody for CDK2AP2 siRNA (h): sc-96948, CDK2AP2 siRNA (m): sc-142225, CDK2AP2 shRNA Plasmid (h): sc-96948-SH, CDK2AP2 shRNA Plasmid (m): sc-142225-SH, CDK2AP2 shRNA (h) Lentiviral Particles: sc-96948-V and CDK2AP2 shRNA (m) Lentiviral Particles: sc-142225-V.

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) Immunofluo-rescence: 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.

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.