

# CDKN2AIP (N-13): sc-161477

## BACKGROUND

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdk). CDKN2AIP (CDKN2A-interacting protein), also known as CARF, is a 580 amino acid protein that activates p53 via p14 ARF (alternate reading frame)-dependent and independent pathways. CDKN2AIP-dependent activation of p53, a protein that up-regulates growth arrest and apoptosis-related genes in response to stress signals, leads to an enhancement of p53 function. Expression levels of CDKN2AIP and p53 show an inverse relationship that is caused by a negative-feedback control via a proteasome-mediated degradation pathway. CDKN2AIP is expressed ubiquitously across tissue samples and, along with p14 ARF, is localized to the perinuclear region within the nucleus. Through direct interaction with MDM2, CDKN2AIP functions as a repressor of MDM2 transcription and undergoes degradation by the MDM2-dependent proteasome pathway. CDKN2AIP contains one DRBM (double-stranded RNA-binding) domain, suggesting a possible role in post-transcriptional gene regulation.

## CHROMOSOMAL LOCATION

Genetic locus: CDKN2AIP (human) mapping to 4q35.1; Cdkn2aip (mouse) mapping to 8 B1.1.

## SOURCE

CDKN2AIP (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CDKN2AIP 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-161477 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CDKN2AIP (N-13) is recommended for detection of CDKN2AIP 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).

CDKN2AIP (N-13) is also recommended for detection of CDKN2AIP in additional species, including bovine and porcine.

Suitable for use as control antibody for CDKN2AIP siRNA (h): sc-88879, CDKN2AIP siRNA (m): sc-142231, CDKN2AIP shRNA Plasmid (h): sc-88879-SH, CDKN2AIP shRNA Plasmid (m): sc-142231-SH, CDKN2AIP shRNA (h) Lentiviral Particles: sc-88879-V and CDKN2AIP shRNA (m) Lentiviral Particles: sc-142231-V.

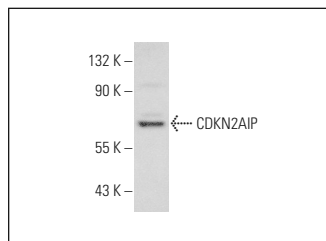
Molecular Weight of CDKN2AIP: 61 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or NIH/3T3 whole cell lysate: sc-2210.

## 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



CDKN2AIP (N-13): sc-161477. Western blot analysis of CDKN2AIP expression in NIH/3T3 whole cell lysate.

## 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.

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Try **CDKN2AIP (18.7): sc-81841**, our highly recommended monoclonal alternative to CDKN2AIP (N-13).