SANTA CRUZ BIOTECHNOLOGY, INC.

CIP29 (C-16): sc-107482

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

CIP29 (cytokine-induced protein of 29 kDa), also known as SARNP (SAP domain-containing ribonucleoprotein) and HCC1 (nuclear protein Hcc-1), is a 210 amino acid nuclear protein whose expression is upregulated by erythropoietin. Induction of CIP2 expression is associated with cell cycle progression and apoptosis. This transcription factor binds both single stranded (ss) and double stranded (ds) DNA, though it has higher affinity for ssDNA. CIP29 is expressed at low levels in pancreas, spleen, testis, liver, kidney, heart and thymus, and is found to be expressed at higher levels in pancreatic adenocarcinoma and hepatocellular carcinoma. A translocation t(11;12)(q23;q13) in acute myelomonocytic leukemia results in the coding region of CIP29 gene fused to exon 9 of the MLL gene, which encodes for a protein with the N-terminal SAP domain and two C-terminal nuclear localization signals of CIP29 and N-termial AT hooks and central DNA methyltransferase homology region of MLL.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SARNP (human) mapping to 12q13.2; Sarnp (mouse) mapping to 10 D3.

SOURCE

CIP29 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CIP29 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-107482 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-107482 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CIP29 (C-16) is recommended for detection of CIP29 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).

CIP29 (C-16) is also recommended for detection of CIP29 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for CIP29 siRNA (h): sc-96155, CIP29 siRNA (m): sc-142345, CIP29 shRNA Plasmid (h): sc-96155-SH, CIP29 shRNA Plasmid (m): sc-142345-SH, CIP29 shRNA (h) Lentiviral Particles: sc-96155-V and CIP29 shRNA (m) Lentiviral Particles: sc-142345-V.

CIP29 (C-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of CIP29: 29 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.