

NC2 α (V-18): sc-17272

BACKGROUND

NC2 (negative cofactor 2) is a dimeric histone-fold complex that represses RNA polymerase II transcription through binding to TBP and inhibiting the transcription factors TFIIA and TFIIIB. NC2 consists of two subunits, termed NC2 α and NC2 β , and these subunits dimerize and bind to TBP-promoter complexes via histone fold domains of the H2A-H2B type. NC2 associates with promoters in a manner that correlates with transcriptional activity and with occupancy by basal transcription factors. NC2 binds directly to DNA, and the binding of NC2 to TBP-promoter complexes affects the conformation of DNA, and results in the inhibition of TFIIIB.

CHROMOSOMAL LOCATION

Genetic locus: DRAP1 (human) mapping to 11q13.1; Drap1 (mouse) mapping to 19 A.

SOURCE

NC2 α (V-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NC2 α of human origin.

PRODUCT

Each vial contains 200 μ g 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-17272 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-17272 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NC2 α (V-18) is recommended for detection of NC2 α of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

NC2 α (V-18) is also recommended for detection of NC2 α in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NC2 α siRNA (h): sc-38091, NC2 α siRNA (m): sc-38092, NC2 α shRNA Plasmid (h): sc-38091-SH, NC2 α shRNA Plasmid (m): sc-38092-SH, NC2 α shRNA (h) Lentiviral Particles: sc-38091-V and NC2 α shRNA (m) Lentiviral Particles: sc-38092-V.

NC2 α (V-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

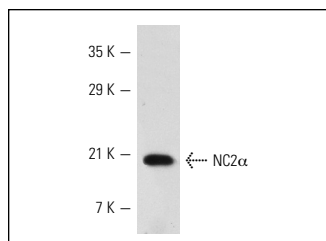
Molecular Weight of NC2 α : 20 kDa.

Positive Controls: SK-BR-3 nuclear extract: sc-2134.

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



NC2 α (V-18): sc-17272. Western blot analysis of NC2 α expression in SK-BR-3 nuclear extract.

SELECT PRODUCT CITATIONS

1. Kantidakis, T. and White, R.J. 2009. Dr1 (NC2) is present at tRNA genes and represses their transcription in human cells. *Nucleic Acids Res.* 38: 1228-1239.

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 **NC2 α (H-3): sc-374336**, our highly recommended monoclonal alternative to NC2 α (V-18).