

CNOT3 (V-20): sc-82824

-BACKGROUND

CNOT3 is a widely expressed subunit of the CCR4-NOT transcription complex and belongs to the CNOT2/3/5 family. The CCR4-NOT complex is an evolutionarily conserved, multi-component complex known to be involved in transcription as well as mRNA degradation. Various subunits (e.g. CNOT1, CNOT3) are involved in influencing nuclear hormone receptor activities. The CCR4-NOT complex is also involved in the regulation of Histone H3 Lysine 4 methylation through a ubiquitin-dependent pathway that likely involves the proteasome. Similar to CNOT2, CNOT3 contains the specialized protein motif NOT-Box. This conserved motif confers a transcription repression function to CNOT3. Repression by the NOT-Box is sensitive to treatment with the histone deacetylase (HDAC) inhibitor trichostatin A.

CHROMOSOMAL LOCATION

Genetic locus: CNOT3 (human) mapping to 19q13.42; Cnot3 (mouse) mapping to 7 A1.

SOURCE

CNOT3 (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CNOT3 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-82824 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82824 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

CNOT3 (V-20) is recommended for detection of CNOT3 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 other CNOT family members.

CNOT3 (V-20) is also recommended for detection of CNOT3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CNOT3 siRNA (h): sc-72939, CNOT3 siRNA (m): sc-72940, CNOT3 shRNA Plasmid (h): sc-72939-SH, CNOT3 shRNA Plasmid (m): sc-72940-SH, CNOT3 shRNA (h) Lentiviral Particles: sc-72939-V and CNOT3 shRNA (m) Lentiviral Particles: sc-72940-V.

CNOT3 (V-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

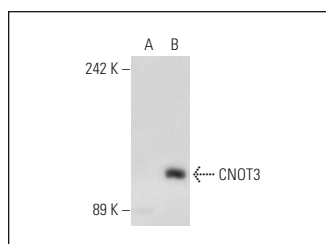
Molecular Weight of CNOT3 isoforms: 59/64/82/116 kDa.

Positive Controls: CNOT3 (h): 293 Lysate: sc-111031, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

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.

DATA



CNOT3 (V-20): sc-82824. Western blot analysis of CNOT3 expression in non-transfected: sc-110760 (A) and human CNOT3 transfected: sc-111031 (B) 293 whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
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Try **CNOT3 (2192C2a): sc-81230**, our highly recommended monoclonal alternative to CNOT3 (V-20).