

# CNOT8 (C-19): sc-82837

## BACKGROUND

The CCR4-NOT complex is an evolutionarily conserved, multi-component complex known to be involved in transcription as well as mRNA degradation. Various subunits within the complex 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. CNOT8 (CCR4-NOT transcription complex subunit 8), also known as CALIF or POP2, is a 292 amino acid protein that localizes to both the nucleus and the cytoplasm and functions as part of the CCR-NOT complex. Expressed ubiquitously, CNOT8 plays a role in transcriptional regulation for a diverse set of processes.

## PRODUCT

1. Bogdan, J.A., Adams-Burton, C., Pedicord, D.L., Sukovich, D.A., Benfield, P.A., Corjay, M.H., Stoltenberg, J.K. and Dicker, I.B. 1998. Human carbon catabolite repressor protein (CCR4)-associative factor 1: cloning, expression and characterization of its interaction with the B-cell translocation protein BTG1. *Biochem. J.* 336: 471-481.
2. Fidler, C., Wainscoat, J.S. and Boultonwood, J. 1999. The human POP2 gene: identification, sequencing, and mapping to the critical region of the 5q- syndrome. *Genomics* 56: 134-136.
3. Albert, T.K., Lemaire, M., van Berkum, N.L., Gentz, R., Collart, M.A. and Timmers, H.T. 2000. Isolation and characterization of human orthologs of yeast CCR4-NOT complex subunits. *Nucleic Acids Res.* 28: 809-817.
4. Prévôt, D., Morel, A.P., Voeltzel, T., Rostan, M.C., Rimokh, R., Magaud, J.P. and Corbo, L. 2001. Relationships of the antiproliferative proteins BTG1 and BTG2 with CAF1, the human homolog of a component of the yeast CCR4 transcriptional complex: involvement in estrogen receptor  $\alpha$  signaling pathway. *J. Biol. Chem.* 276: 9640-9648.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603731. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Morel, A.P., Sentis, S., Bianchin, C., Le Romancer, M., Jonard, L., Rostan, M.C., Rimokh, R. and Corbo, L. 2003. BTG2 antiproliferative protein interacts with the human CCR4 complex existing *in vivo* in three cell-cycle-regulated forms. *J. Cell Sci.* 116: 2929-2936.

## CHROMOSOMAL LOCATION

Genetic locus: CNOT8 (human) mapping to 5q33.2; Cnot8 (mouse) mapping to 11 B1.3.

## SOURCE

CNOT8 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CNOT8 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82837 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82837 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

CNOT8 (C-19) is recommended for detection of CNOT8 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.

CNOT8 (C-19) is also recommended for detection of CNOT8 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CNOT8 siRNA (h): sc-72948, CNOT8 siRNA (m): sc-72949, CNOT8 shRNA Plasmid (h): sc-72948-SH, CNOT8 shRNA Plasmid (m): sc-72949-SH, CNOT8 shRNA (h) Lentiviral Particles: sc-72948-V and CNOT8 shRNA (m) Lentiviral Particles: sc-72949-V.

CNOT8 (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of CNOT8: 34 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.

## 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.