

CNOT8 (1F11): sc-293395

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

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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 α 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.
7. Dorfleutner, A., Bryan, N.B., Talbott, S.J., Funya, K.N., Rellick, S.L., Reed, J.C., Shi, X., Rojanasakul, Y., Flynn, D.C. and Stehlik, C. 2007. Cellular pyrin domain-only protein 2 is a candidate regulator of inflammasome activation. *Infect. Immun.* 75: 1484-1492.

CHROMOSOMAL LOCATION

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

SOURCE

CNOT8 (1F11) is a mouse monoclonal antibody raised against amino acids 201-292 of CNOT8 of human origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CNOT8 (1F11) 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), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

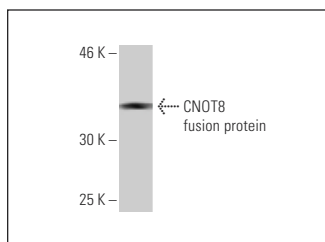
Suitable for use as control antibody for CNOT8 siRNA (h): sc-72948, CNOT8 siRNA (m): sc-72949, CNOT8 shRNA Plasmid (h): sc-72948-SH, CNOT8 shRNA Plasmid (m): sc-72949-SH, CNOT8 shRNA (h) Lentiviral Particles: sc-72948-V and CNOT8 shRNA (m) Lentiviral Particles: sc-72949-V.

Molecular Weight of CNOT8: 34 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



CNOT8 (1F11): sc-293395. Western blot analysis of human recombinant CNOT8 fusion protein.

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 for detailed protocols and support products.