

CNOT11 (H-7): sc-390318

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. CNOT11 (CCR4-NOT transcription complex, subunit 11), also known as C40, is a 510 amino acid protein that belongs to the CNOT11 family. CNOT10 and CNOT11 form a subcomplex docked to the CNOT1 scaffold. CNOT11 is encoded by a gene that maps to human chromosome 2q11.2. As the second largest human chromosome, chromosome 2 makes up approximately 8% of the human genome and contains 237 million bases encoding over 1,400 genes.

REFERENCES

1. Bogdan, J.A., et al. 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., et al. 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., et al. 2000. Isolation and characterization of human orthologs of yeast CCR4-NOT complex subunits. *Nucleic Acids Res.* 28: 809-817.
4. Prévôt, D., et al. 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., et al. 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: CNOT11 (human) mapping to 2q11.2; Cnot11 (mouse) mapping to 1 B.

SOURCE

CNOT11 (H-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 237-251 within an internal region of CNOT11 of human origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-390318 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

CNOT11 (H-7) is recommended for detection of CNOT11 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

CNOT11 (H-7) is also recommended for detection of CNOT11 in additional species, including canine and avian.

Suitable for use as control antibody for CNOT11 siRNA (h): sc-94334, CNOT11 siRNA (m): sc-142800, CNOT11 shRNA Plasmid (h): sc-94334-SH, CNOT11 shRNA Plasmid (m): sc-142800-SH, CNOT11 shRNA (h) Lentiviral Particles: sc-94334-V and CNOT11 shRNA (m) Lentiviral Particles: sc-142800-V.

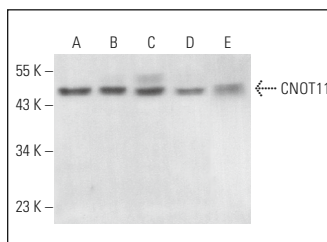
Molecular Weight of CNOT11: 55 kDa.

Positive Controls: TF-1 cell lysate: sc-2412, Jurkat whole cell lysate: sc-2204 or KNRK whole cell lysate: sc-2214.

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). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



CNOT11 (H-7): sc-390318. Western blot analysis of CNOT11 expression in TF-1 (A), Jurkat (B), CCRF-CEM (C), WEHI-231 (D) and KNRK (E) 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.

RESEARCH USE

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