SANTA CRUZ BIOTECHNOLOGY, INC.

CNOT11 (C-12): sc-139233

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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/

CHROMOSOMAL LOCATION

Genetic locus: CNOT11 (human) mapping to 2q11.2; Cnot11 (mouse) mapping to 1 B.

SOURCE

CNOT11 (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of CNOT11 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139233 P, (100 µg 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

CNOT11 (C-12) is recommended for detection of CNOT11 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CNOT11 (C-12) is also recommended for detection of CNOT11 in additional species, including equine, canine, bovine, porcine 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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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 or our catalog for detailed protocols and support products.