

CNOT11 (C-6): sc-377068

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.

CHROMOSOMAL LOCATION

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

SOURCE

CNOT11 (C-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 227-261 within an internal region of C2orf29 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CNOT11 (C-6) is available conjugated to agarose (sc-377068 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377068 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377068 PE), fluorescein (sc-377068 FITC), Alexa Fluor[®] 488 (sc-377068 AF488), Alexa Fluor[®] 546 (sc-377068 AF546), Alexa Fluor[®] 594 (sc-377068 AF594) or Alexa Fluor[®] 647 (sc-377068 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-377068 AF680) or Alexa Fluor[®] 790 (sc-377068 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-377068 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

CNOT11 (C-6) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

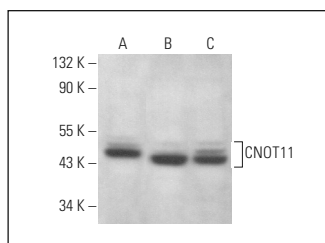
CNOT11 (C-6) is also recommended for detection of CNOT11 in additional species, including canine, porcine and avian.

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.

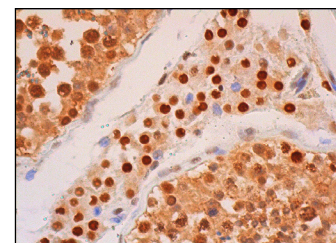
Molecular Weight of CNOT11: 55 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, Hep G2 cell lysate: sc-2227 or 3T3-L1 cell lysate: sc-2243.

DATA



CNOT11 (C-6): sc-377068. Western blot analysis of CNOT11 expression in MCF7 (A), Hep G2 (B) and 3T3-L1 (C) whole cell lysates.



CNOT11 (C-6): sc-377068. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and Leydig cells.

SELECT PRODUCT CITATIONS

1. Yamaji, M., et al. 2017. DND1 maintains germline stem cells via recruitment of the CCR4-NOT complex to target mRNAs. *Nature* 543: 568-572.

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.