

CNOT3 (h): 293 Lysate: sc-111031

BACKGROUND

CNOT3 is a widely expressed subunit of the CCR4-NOT transcription complex and belongs to the CNOT2/3/5 family. The CCR4-NOT complex is an evolutionarily conserved, multi-component complex known to be involved in transcription as well as mRNA degradation. Various subunits (e.g. CNOT1, CNOT3) 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. Similar to CNOT2, CNOT3 contains the specialized protein motif NOT-Box. This conserved motif confers a transcription repression function to CNOT3. Repression by the NOT-Box is sensitive to treatment with the histone deacetylase (HDAC) inhibitor trichostatin A.

REFERENCES

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6. Garapaty, S.R., Mahajan, M.A. and Samuels, H.H. 2008. Components of the CCR4-not complex function as nuclear hormone receptor coactivators via association with the NRC interacting factor, NIF-1. *J. Biol. Chem.* 283: 6806-6816.

CHROMOSOMAL LOCATION

Genetic locus: CNOT3 (human) mapping to 19q13.42.

PRODUCT

CNOT3 (h): 293 Lysate represents a lysate of human CNOT3 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

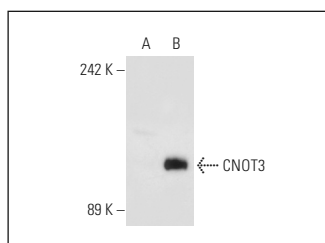
APPLICATIONS

CNOT3 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive CNOT3 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

CNOT3 (2192C2a): sc-81230 is recommended as a positive control antibody for Western Blot analysis of enhanced human CNOT3 expression in CNOT3 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



CNOT3 (2192C2a): sc-81230. Western blot analysis of CNOT3 expression in non-transfected: sc-110760 (A) and human CNOT3 transfected: sc-111031 (B) 293 whole cell lysates.

RESEARCH USE

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