

CNOT10 (C-13): sc-102451

BACKGROUND

CNOT10 is a subunit of the CCR4-NOT complex which consists of at least five other CNOT subunit proteins and TAB182. The CCR4-NOT complex is an evolutionarily conserved, multi-component complex known to be involved in transcription, as well as in mRNA degradation. Various subunits (e.g. CNOT1, CNOT3) are uniquely involved in influencing nuclear hormone receptor activities. In effect, this complex has an important role as a transcription regulator and repressor of nuclear receptor signaling that is relevant to the molecular pathways involved in cancer. 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.

CHROMOSOMAL LOCATION

Genetic locus: CNOT10 (human) mapping to 3p22.3; Cnot10 (mouse) mapping to 9 F3.

SOURCE

CNOT10 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CNOT10 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102451 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

CNOT10 (C-13) is recommended for detection of CNOT10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other CNOT family members.

CNOT10 (C-13) is also recommended for detection of CNOT10 in additional species, including bovine.

Suitable for use as control antibody for CNOT10 siRNA (h): sc-78124, CNOT10 siRNA (m): sc-142437, CNOT10 shRNA Plasmid (h): sc-78124-SH, CNOT10 shRNA Plasmid (m): sc-142437-SH, CNOT10 shRNA (h) Lentiviral Particles: sc-78124-V and CNOT10 shRNA (m) Lentiviral Particles: sc-142437-V.

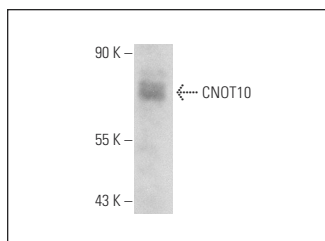
Molecular Weight of CNOT10: 83 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260, HeLa whole cell lysate: sc-2200 or LADMAC whole cell lysate: sc-364189.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CNOT10 (C-13): sc-102451. Western blot analysis of CNOT10 expression in WI-38 whole cell lysate.

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.

MONOS
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Try **CNOT10 (H-9): sc-514570**, our highly recommended monoclonal alternative to CNOT10 (C-13).