SANTA CRUZ BIOTECHNOLOGY, INC.

NCoA-7 (N-13): sc-161925

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Nuclear receptors for steroids, thyroid hormones and retinoic acids are ligand-dependent transcription factors that activate transcription through specific DNA binding sites in their target genes. NCoA-7 (nuclear receptor coactivator 7), also known as ESNA1 or ERAP140, is a 942 amino acid nuclear protein that enhances nuclear receptor transcriptional activities and coactivates several nuclear receptors including PPARγ, ERα, TRβ1 and RARα. Highly expressed in brain and weakly expressed in pancreas, bladder, ovary, spinal cord, prostate, mammary gland, ovary, uterus and stomach, NCoA-7 is a member of the Oxr1 family and contains one LysM repeat and a TLD domain. Six NCoA-7 isoforms are known to exist due to alternative splicing events, and the gene encoding NCoA-7 maps to human chromosome 6q22.32 and mouse chromosome 10 A4.

CHROMOSOMAL LOCATION

Genetic locus: NCOA7 (human) mapping to 6q22.32; Ncoa7 (mouse) mapping to 10 A4.

SOURCE

NCoA-7 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NCoA-7 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-161925 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

NCoA-7 (N-13) is recommended for detection of NCoA-7 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 NCoA-3 or NCoA-5.

NCoA-7 (N-13) is also recommended for detection of NCoA-7 in additional species, including canine, porcine and avian.

Suitable for use as control antibody for NCoA-7 siRNA (h): sc-95482, NCoA-7 siRNA (m): sc-149859, NCoA-7 shRNA Plasmid (h): sc-95482-SH, NCoA-7 shRNA Plasmid (m): sc-149859-SH, NCoA-7 shRNA (h) Lentiviral Particles: sc-95482-V and NCoA-7 shRNA (m) Lentiviral Particles: sc-149859-V.

Molecular Weight (predicted) of NCoA-7: 106 kDa.

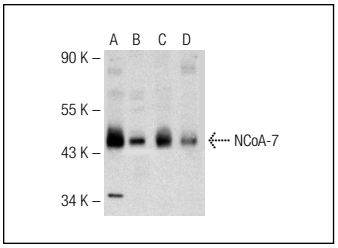
Molecular Weight (observed) of NCoA-7: 118-126 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260, LADMAC whole cell lysate: sc-364189 or COLO 320DM cell lysate: sc-2226.

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



NCoA-7 (N-13): sc-161925. Western blot analysis of NCoA-7 expression in WI-38 (**A**), LADMAC (**B**) and COLO 320DM (**C**) whole cell lysates and mouse brain tissue extract (**D**).

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 Satisfaction Guaranteed

Try **NCoA-7 (C-2): sc-393427**, our highly recommended monoclonal alternative to NCoA-7 (N-13).