**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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

NCoa7 (C-2) is a mouse monoclonal antibody raised against amino acids 601-900 mapping near the C-terminus of NCoA-7 of human origin.

**PRODUCT**

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

NCoA-7 (C-2) is available conjugated to agarose (sc-393427 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393427 HRP), 200 µg/ml, for WB, IHC/Paraffin and ELISA; to either phycoerythrin (sc-393427 PE), fluorescein (sc-393427 FITC), Alexa Fluor® 488 (sc-393427 AF488), Alexa Fluor® 546 (sc-393427 AF546), Alexa Fluor® 594 (sc-393427 AF594) or Alexa Fluor® 647 (sc-393427 AF647), 200 µg/ml, for WB (RGB), IF, IHC/Paraffin and FCM; and to either Alexa Fluor® 680 (sc-393427 AF680) or Alexa Fluor® 790 (sc-393427 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

NCoA-7 (C-2) is recommended for detection of NCoA-7 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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-95462-V and NCoA-7 shRNA (m) Lentiviral Particles: sc-149859-V.

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

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP, sc-24941 or UltraCruz™, sc-516102 with UltraCruz™ HRP Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3) Immunofluorescence: use m-IgG HRP, sc-2035, UltraCruz™ Molecular Weight Standards: sc-2035, UltraCruz™ Blocking Reagent: sc-16214 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 m-IgG HRP, sc-2035, UltraCruz™ Molecular Weight Standards: sc-2035, UltraCruz™ Blocking Reagent: sc-16214 and Western Blotting Luminol Reagent: sc-2048.

**DATA**

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

**PROTOCOLS**

Positive Controls: MCF7 whole cell lysate: sc-2206, HUV-EC-C whole cell lysate: sc-364180 and NIH/3T3 whole cell lysate: sc-2210.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment.

**RESEARCH USE**

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

**REFERENCES**