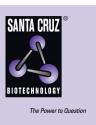
SANTA CRUZ BIOTECHNOLOGY, INC.

N-CoR (C-20): sc-1609



BACKGROUND

Retinoids are metabolites of vitamin A (retinol) and are believed to represent important signaling molecules during vertebrate development and tissue differentiation. Two families of retinoid receptors have been identified. Retinoic acid receptors (RARs), include RAR α , RAR β and RAR γ , each of which have a high affinity for all-*trans* retinoic acids and belong to the same class of nuclear transcription factors as thyroid hormone receptors, vitamin D₃ receptor and ecdysone receptor. Two cofactors that function to repress transcription, designated SMRT and N-CoR, have been shown to associate with the thyroid receptor and RAR in their unliganded state and are released from them upon ligand binding. The carboxy-termini of both proteins contain receptor interacting domains. SMRT (silencing mediator for RARs and TRs) is 1,495 amino acids in length. N-CoR (nuclear receptor corepressor) is a protein 2,453 amino acids in length.

CHROMOSOMAL LOCATION

Genetic locus: NCOR1 (human) mapping to 17p12; Ncor1 (mouse) mapping to 11 B2.

SOURCE

N-CoR (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of N-CoR of mouse 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-1609 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for ChIP application, sc-1609 X, 200 µg/0.1 ml.

APPLICATIONS

N-CoR (C-20) is recommended for detection of N-CoR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

N-CoR (C-20) is also recommended for detection of N-CoR in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for N-CoR siRNA (h): sc-36001, N-CoR siRNA (m): sc-36002, N-CoR shRNA Plasmid (h): sc-36001-SH, N-CoR shRNA Plasmid (m): sc-36002-SH, N-CoR shRNA (h) Lentiviral Particles: sc-36001-V and N-CoR shRNA (m) Lentiviral Particles: sc-36002-V.

N-CoR (C-20) X TransCruz antibody is recommended for ChIP assays.

Molecular Weight of N-CoR: 270 kDa.

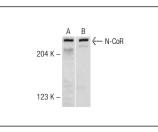
RESEARCH USE

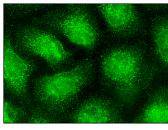
For research use only, not for use in diagnostic procedures.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA





Western blot analysis of N-CoR expression in K-562 whole cell lysate (**A**) and nuclear extract (**B**). Antibodies tested include: N-CoR (N-19): sc-1611 (**A**) and N-CoR (C-20): sc-1609 (**B**).

N-CoR (C-20): sc-1609. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

SELECT PRODUCT CITATIONS

- Klein, E.S., et al. 2000. Recruitment of nuclear receptor corepressor and coactivator to the retinoic acid receptor by retinoid ligands. J. Biol. Chem. 275: 19401-19408.
- 2. Feige, J., et al. 2007. The endocrine disruptor monoethyl-hexyl-phthalate is a selective peroxisome proliferator-activated receptor γ modulator that promotes adipogenesis. J. Biol. Chem. 282: 19152-19166.
- Müller, P., et al. 2009. Estrogen-dependent downregulation of hairy and enhancer of split homolog-1 gene expression in breast cancer cells is mediated via a 3' distal element. J. Endocrinol. 200: 311-319.
- 4. Wang, D., et al. 2009. Negative regulation of TSH α target gene by thyroid hormone involves histone acetylation and corepressor complex dissociation. Mol. Endocrinol. 23: 600-609.
- Kim, G.H., et al. 2009. Characterization of ASC-2 as an antiatherogenic transcriptional coactivator of liver X receptors in macrophages. Mol. Endocrinol. 23: 966-974.
- 6. Wang, D., et al. 2010. Distinct and histone-specific modifications mediate positive versus negative transcriptional regulation of TSH α promoter. PLoS ONE 5: e9853.
- Ansari, K.I., et al. 2011. HOXC6 Is transcriptionally regulated via coordination of MLL histone methylase and estrogen receptor in an estrogen environment. J. Mol. Biol. 411: 334-349.
- Ali, A.B., et al. 2011. Role of chaperone mediated autophagy (CMA) in the degradation of misfolded N-CoR protein in non-small cell lung cancer (NSCLC) cells. PLoS ONE 6: e25268.

MONOS Satisfation Guaranteed

Try N-CoR (7A7A9): sc-293154, our highly recommended monoclonal aternative to N-CoR (C-20).