**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 RARα, RARβ and RARγ, 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 while their amino termini contain two previously undescribed repressor 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 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-1611 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

N-CoR (N-19) 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 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).

N-CoR (N-19) is also recommended for detection of N-CoR in additional species, including canine 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.

Molecular Weight of N-CoR: 270 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or K-562 nuclear extract: sc-2130.

**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 (N-19) sc-1611. Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear localization.

**SELECT PRODUCT CITATIONS**


Try N-CoR (7A7A9): sc-293154, our highly recommended monoclonal alternative to N-CoR (N-19).