CoREST (E-15): sc-23448



The Power to Question

BACKGROUND

NRSF (neuron-restrictive silencer factor, also designated XBR and REST for RE1-silencing factor) is a silencer protein that represses neuronal gene transcription in non-neuronal cells. NRSF-mediated repression requires histone deacetylase activity because repressed genes are associated with hypoacetylated chromatin. HDAC is recruited to the NRSF repressor complex by two co-repressors, Sin3A and CoREST. CoREST interacts with a single zinc finger motif in the carboxy-terminal repressor domain of NRSF, whereas Sin3A interacts with NRSF's amino-terminal repressor domain. In addition, CoREST interacts with HDAC through a SANT domain, which is found in other HDAC interacting proteins such as NCoR, MTA1 and MTA2. CoREST is an integral component of the NRSF repressor complex. Its functionality has been conserved in several species, including human, mouse, *Xenopus* and *C. elegans*.

REFERENCES

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- Grimes, J.A., et al. 2000. The co-repressor mSin3A is a functional component of the REST-CoREST repressor complex. J. Biol. Chem. 275: 9461-9467.
- Kojima, T., et al. 2001. Cell-type non-selective transcription of mouse and human genes encoding neural-restrictive silencer factor. Brain Res. Mol. 90: 174-186.
- You, A., et al. 2001. CoREST is an integral component of the CoRESThuman histone deacetylase complex. Proc. Natl. Acad. Sci. USA 98: 1454-1458.
- Tontsch, S., et al. 2001. Identification and localization of M-CoREST (1A13), a mouse homologue of the human transcriptional co-repressor CoREST, in the developing mouse CNS. Mech. Dev. 108: 165-169.
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CHROMOSOMAL LOCATION

Genetic locus: COREST (human) mapping to 14q32.31; Corest (mouse) mapping to 12 F1.

SOURCE

CoREST (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CoREST of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-23448 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

CoREST (E-15) is recommended for detection of corepressor of REST (CoREST) 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). CoREST (E-15) is also recommended for detection of corepressor of REST (CoREST) in additional species, including equine, bovine, porcine and avian.

Suitable for use as control antibody for CoREST siRNA (h): sc-38131, CoREST siRNA (m): sc-142516, CoREST shRNA Plasmid (h): sc-38131-SH, CoREST shRNA Plasmid (m): sc-142516-SH, CoREST shRNA (h) Lentiviral Particles: sc-38131-V and CoREST shRNA (m) Lentiviral Particles: sc-142516-V.

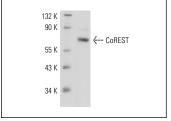
Molecular Weight of CoREST: 66 kDa.

Positive Controls: MOLT-4 nuclear extract: sc-2151, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

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



CoREST (E-15): sc-23448. Western blot analysis of CoREST expression in MOLT-4 nuclear extract.

STORAGE

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



Try CoREST (H-8): sc-376567 or CoREST (26): sc-135873, our highly recommended monoclonal aternatives to CoREST (E-15).