

# CoREST (H-65): sc-30189

## 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 the NRSF 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

1. Andres, M.E., et al. 1999. CoREST: a functional corepressor required for regulation of neural-specific gene expression. *Proc. Natl. Acad. Sci. USA* 96: 9873-9878.
2. 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

CoREST (H-65) is a rabbit polyclonal antibody raised against amino acids 246-310 mapping within an internal region of CoREST 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.

## APPLICATIONS

CoREST (H-65) is recommended for detection of 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), immunohistochemistry (including paraffin-embedded sections) (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 (H-65) is also recommended for detection of CoREST in additional species, including equine, canine, 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.

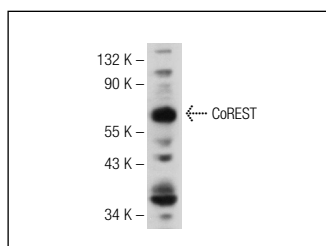
Molecular Weight of CoREST: 66 kDa.

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

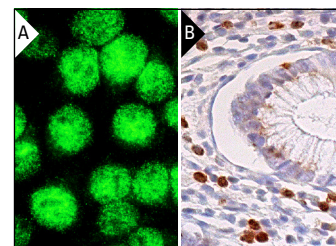
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



CoREST (H-65): sc-30189. Western blot analysis of CoREST expression in MOLT-4 nuclear extract.



CoREST (H-65): sc-30189. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing nuclear staining of inflammatory cells (B).

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Guaranteed

Try **CoREST (H-8): sc-376567** or **CoREST (26): sc-135873**, our highly recommended monoclonal alternatives to CoREST (H-65).