

# CREG2 (E-14): sc-240253

## BACKGROUND

The adenovirus E1A protein both activates and represses gene expression to promote cellular proliferation and inhibit differentiation. CREG (cellular repressor of E1A-stimulated genes) is a cellular protein that antagonizes transcriptional activation and cellular transformation by E1A. CREG was initially isolated in a yeast two-hybrid screen due to its interaction with the TATA-binding protein, TBP. A member of the CREG family, CREG2 (cellular repressor of E1A-stimulated genes 2) is a novel protein that shares 35% homology with CREG and is expressed at highest levels in brain. CREG2 is a secreted protein containing 290 amino acids whose N-terminus is thought to function as a signal sequence. The gene encoding CREG2 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CREG2 (human) mapping to 2q11.2; Creg2 (mouse) mapping to 1 B.

## SOURCE

CREG2 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CREG2 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.

Blocking peptide available for competition studies, sc-240253 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CREG2 (E-14) is recommended for detection of CREG2 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); non cross-reactive with CREG.

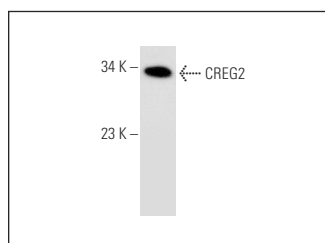
CREG2 (E-14) is also recommended for detection of CREG2 in additional species, including porcine.

Suitable for use as control antibody for CREG2 siRNA (h): sc-94733, CREG2 siRNA (m): sc-142566, CREG2 shRNA Plasmid (h): sc-94733-SH, CREG2 shRNA Plasmid (m): sc-142566-SH, CREG2 shRNA (h) Lentiviral Particles: sc-94733-V and CREG2 shRNA (m) Lentiviral Particles: sc-142566-V.

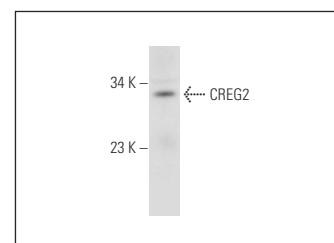
Molecular Weight of CREG2: 32 kDa.

Positive Controls: rat brain extract: sc-2392 or U-251-MG whole cell lysate: sc-364176.

## DATA



CREG2 (E-14): sc-240253. Western blot analysis of CREG2 expression in U-251-MG whole cell lysate.



CREG2 (E-14): sc-240253. Western blot analysis of CREG2 expression in rat brain tissue extract.

## 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.