**BACKGROUND**

Eukaryotic gene transcription is regulated by sequence-specific transcription factors which bind modular cis acting promoter and enhancer elements. The cAMP response element (CRE), one of the best studied of such elements, consists of the palindromic octanucleotide TGACGTCA. Several CRE binding proteins have been identified within the ATF/CREB family, the best characterized of which include CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. These proteins share highly related COOH terminal leucine zipper dimerization and basic DNA binding domains but are highly divergent in their amino terminal domains. Although each of the ATF/CREB proteins appear capable of binding CRE in its homodimeric form, certain of these also bind as heterodimers, both within the ATF/CREB family and even with members of the AP-1 transcription factor family.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ATF4 (human) mapping to 22q13.1; A tf4 (mouse) mapping to 1-2 of CREB-2 of human origin by Western Blotting (starting dilution 1:100, 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). Suitable for use as control antibody for CREB-2 siRNA (m): sc-35112, CREB-2 siRNA (h): sc-35113, CREB-2 shRNA Plasmid (h): sc-35112-SH, CREB-2 shRNA Plasmid (m): sc-35113-SH, CREB-2 shRNA (h) Lentiviral Particles: sc-35112-V and CREB-2 shRNA (m) Lentiviral Particles: sc-35113-V.

**PRODUCT**

CREB-2 (B-3) is a mouse monoclonal antibody raised against amino acids 1-290 of CREB-2 of human origin.

**APPLICATIONS**

CREB-2 (B-3) is recommended for detection of CREB-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], and immuno blotting [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).

**DATA**

CREB-2 (B-3): sc-390063. Western blot analysis of CREB-2 expression in K-562 (A) and Jurkat (B) whole cell lysates and K-562 (C) and Jurkat (D) nuclear extracts.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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