

CRE-BPa (H-68): sc-50514

BACKGROUND

The ATF/CREB family consists of a series of transcription factors that function by binding to the cAMP responsive element (CRE) palindromic octanucleotide, TGACCTCA. The best characterized members of this gene family include CREB-1, CREB-2 (also designated ATF-4), CRE-BPa, LZIP (also designated CREB-3 and Luman), CREM-2, ATF-1, ATF-2, ATF-3, ATF-5, ATF-6 and ATF-7. These transcription factors share terminal leucine zipper dimerization and basic DNA binding domains and are highly variable in their N-termini. Although each of the ATF/CREB proteins bind CREs in their homodimeric form, they can also bind as heterodimers, both within the ATF/CREB family and with members of the AP-1 transcription factor family. Protein kinase A-mediated CREB phosphorylation induces association with a nuclear protein designated CBP (CREB-binding protein), which may represent a CREB coactivator. CRE-BPa is a nuclear protein that binds DNA as a homodimer but can also form a hetero-dimer with ATF-2 or Jun.

CHROMOSOMAL LOCATION

Genetic locus: CREB5 (human) mapping to 7p15.1; Creb5 (mouse) mapping to 6 B3.

SOURCE

CRE-BPa (H-68) is a rabbit polyclonal antibody raised against amino acids 441-508 mapping at the C-terminus of CRE-BPa 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-50514 X, 200 µg/0.1 ml.

APPLICATIONS

CRE-BPa (H-68) is recommended for detection of CRE-BPa 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).

CRE-BPa (H-68) is also recommended for detection of CRE-BPa in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CRE-BPa siRNA (h): sc-45639, CRE-BPa siRNA (m): sc-45640, CRE-BPa shRNA Plasmid (h): sc-45639-SH, CRE-BPa shRNA Plasmid (m): sc-45640-SH, CRE-BPa shRNA (h) Lentiviral Particles: sc-45639-V and CRE-BPa shRNA (m) Lentiviral Particles: sc-45640-V.

CRE-BPa (H-68) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

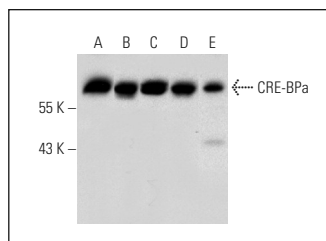
Molecular Weight of CRE-BPa: 57 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, HeLa whole cell lysate: sc-2200 or CCRF-CEM nuclear extract: sc-2146.

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.

DATA



CRE-BPa (H-68): sc-50514. Western blot analysis of CRE-BPa expression in HeLa (A), CCRF-CEM (B), RAW 264.7 (C) and A-431 (D) nuclear extracts and HeLa whole cell lysate (E).

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **CRE-BPa (G420): sc-130435**, our highly recommended monoclonal alternative to CRE-BPa (H-68).