

ATF-5 (H-83): sc-99205

BACKGROUND

Eukaryotic gene transcription is regulated by sequence-specific transcription factors that bind modular *cis*-acting promoter and enhancer elements. The ATF/CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The best characterized members of this gene family include CREB-1, CREB-2 (also designated ATF-4), CRE-BPa, LZIP (also designated CREB3 and Luman), CREM-1, CREM-2, ATF-1, ATF-2, ATF-3, ATF-5, ATF-6 and ATF-7. This family of proteins contain highly divergent N-terminal domains, but share a C-terminal leucine zipper for dimerization and DNA binding. ATF-5 (ATF_x), which can localize to the cytoplasm or the nucleus, binds DNA as a dimer. It interacts with CCND3 and PTP4A1.

REFERENCES

1. Pati, D., et al. 1999. Human Cdc34 and Rad6B ubiquitin-conjugating enzymes target repressors of cyclic AMP-induced transcription for proteolysis. *Mol. Cell. Biol.* 19: 5001-5013.
2. Hansen, M.B., et al. 2002. Mouse ATF-5: molecular cloning of two novel mRNAs, genomic organization and odorant sensory neuron localization. *Genomics* 80: 344-350.

CHROMOSOMAL LOCATION

Genetic locus: ATF5 (human) mapping to 19q13.33; Atf5 (mouse) mapping to 7 B4.

SOURCE

ATF-5 (H-83) is a rabbit polyclonal antibody raised against amino acids 1-83 mapping at the N-terminus of ATF-5 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-99205 X, 200 µg/0.1 ml.

APPLICATIONS

ATF-5 (H-83) is recommended for detection of ATF-5 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); may cross-react with ATF-7 of mouse origin.

Suitable for use as control antibody for ATF-5 siRNA (h): sc-43580, ATF-5 siRNA (m): sc-60222, ATF-5 shRNA Plasmid (h): sc-43580-SH, ATF-5 shRNA Plasmid (m): sc-60222-SH, ATF-5 shRNA (h) Lentiviral Particles: sc-43580-V and ATF-5 shRNA (m) Lentiviral Particles: sc-60222-V.

ATF-5 (H-83) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

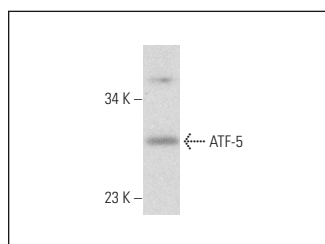
Molecular Weight of ATF-5: 31 kDa.

Positive Controls: human liver extract: sc-363766.

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) 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



ATF-5 (H-83): sc-99205. Western blot analysis of ATF-5 expression in human liver 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **ATF-5 (E-10): sc-377168**, our highly recommended monoclonal alternative to ATF-5 (H-83).