

ERF (H-68): sc-292179

BACKGROUND

ABT1 (activator of basal transcription 1) is a nuclear protein that associates with the TATA-binding protein (TBP) and enhances basal transcription activity of class II promoters. ABT1 associates with TBP in HeLa nuclear extracts *in vitro*. Another protein, designated ERF, is a member of the Ets family of transcription factors. The members of the Ets family are grouped because they share a highly conserved DNA binding domain. These factors are involved in growth factor pathways and regulate both proliferation and differentiation. ERF (Ets2 repressor factor) is a ubiquitously expressed Ets-domain protein that exhibits strong transcriptional repressor activity, suppresses Ets-induced transformation and is regulated by MAPK phosphorylation. ERF transcription may be regulated by Ets-domain proteins. Additionally, modulation of ERF activity is involved in the transcriptional regulation of genes activated during entry into G₁ phase.

CHROMOSOMAL LOCATION

Genetic locus: ERF (human) mapping to 19q13.2; Erf (mouse) mapping to 7 A3.

SOURCE

ERF (H-68) is a rabbit polyclonal antibody raised against amino acids 428-495 mapping within an internal region of ERF 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292179 X, 200 µg/0.1 ml.

APPLICATIONS

ERF (H-68) is recommended for detection of ERF 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).

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

Suitable for use as control antibody for ERF siRNA (h): sc-43754, ERF siRNA (m): sc-144923, ERF shRNA Plasmid (h): sc-43754-SH, ERF shRNA Plasmid (m): sc-144923-SH, ERF shRNA (h) Lentiviral Particles: sc-43754-V and ERF shRNA (m) Lentiviral Particles: sc-144923-V.

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

Molecular Weight of ERF: 54 kDa.

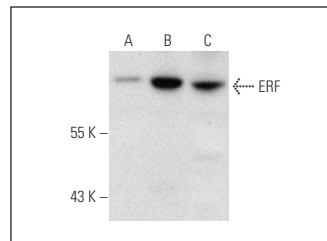
Molecular Weight of phosphorylated ERF: 75-85 kDa.

Positive Controls: ERF (h): 293T Lysate: sc-113734, RAW 264.7 whole cell lysate: sc-2211 or A-431 whole cell lysate: sc-2201.

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



ERF (H-68): sc-292179. Western blot analysis of ERF expression in non-transfected 293T: sc-117752 (A), human ERF transfected 293T: sc-113734 (B) and A-431 (C) whole cell lysates.

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.



Try **ERF (E-9): sc-398269** or **ERF (33L): sc-130372**, our highly recommended monoclonal alternatives to ERF (H-68).