

ABT1 (C-15): sc-15411

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: ABT1 (human) mapping to 6p22.2; Abt1 (mouse) mapping to 13 A3.1

SOURCE

ABT1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ABT1 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-15411 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ABT1 (C-15) is recommended for detection of ABT1 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).

ABT1 (C-15) is also recommended for detection of ABT1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ABT1 siRNA (h): sc-105028, ABT1 siRNA (m): sc-140785, ABT1 shRNA Plasmid (h): sc-105028-SH, ABT1 shRNA Plasmid (m): sc-140785-SH, ABT1 shRNA (h) Lentiviral Particles: sc-105028-V and ABT1 shRNA (m) Lentiviral Particles: sc-140785-V.

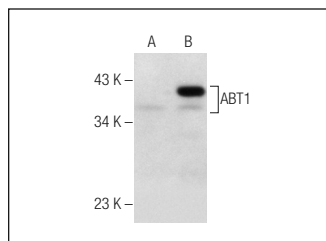
Molecular Weight of ABT1: 31 kDa.

Positive Controls: ABT1 (h): 293T Lysate: sc-370232 or human heart extract: sc-363763.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



ABT1 (C-15): sc-15411. Western blot analysis of ABT1 expression in non-transfected: sc-117752 (**A**) and human ABT1 transfected: sc-370232 (**B**) 293T whole cell lysates.

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.

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Try **ABT1 (B-9): sc-390233**, our highly recommended monoclonal alternative to ABT1 (C-15).