# ABT1 (N-17): sc-15409



The Power to Overtin

#### **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 differ-entiation. 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  $\mathbf{G}_1$  phase.

## **REFERENCES**

- Sgouras, D.N., et al. 1995. ERF: an Ets domain protein with strong transcriptional repressor activity, can suppress Ets-associated tumorigenesis and is regulated by phosphorylation during cell cycle and mitogenic stimulation. EMBO J. 14: 4781-4793.
- 2. de Castro, C.M., et al. 1997. Genomic structure and chromosomal localization of the novel Ets factor, PE-2 (ERF). Genomics 42: 227-235.
- Liu, D., et al. 1997. ERF: genomic organization, chromosomal localization and promoter analysis of the human and mouse genes. Oncogene 14: 1445-1451.
- 4. Oda, T., et al. 2000. A novel TATA-binding protein-binding protein, ABT1, activates basal transcription and has a yeast homolog that is essential for growth. Mol. Cell. Biol. 20: 1407-1418.

### CHROMOSOMAL LOCATION

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

## **SOURCE**

ABT1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ABT1 of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-15409 P, (100  $\mu$ g 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.

#### **RESEARCH USE**

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

#### **APPLICATIONS**

ABT1 (N-17) 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 (N-17) 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.

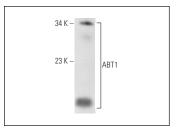
Molecular Weight of ABT1: 31 kDa.

Positive Controls: mouse heart extract: sc-2254.

#### **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 (N-17): sc-15409. Western blot analysis of ABT1 expression in mouse heart tissue extract.

#### **PROTOCOLS**

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