# ABT1 (D-22): sc-130935



The Power to Question

#### **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 G<sub>1</sub> phase.

## **REFERENCES**

- Sgouras, D.N., Athanasiou, M.A., Beal, G.J. Jr., Fisher, R.J., Blair, D.G. and Mavrothalassitis, G.J. 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.
- de Castro, C.M., Rabe, S.M., Langdon, S.D., Fleenor, D.E., Slentz-Kesler, K., Ahmed, M.N., Qumsiyeh, M.B. and Kaufman, R.E. 1997. Genomic structure and chromosomal localization of the novel Ets factor, PE-2 (ERF). Genomics 42: 227-235.
- 3. Liu, D., Pavlopoulos, E., Modi, W., Moschonas, N. and Mavrothalassitis, G. 1997. ERF: genomic organization, chromosomal localization and promoter analysis of the human and mouse genes. Oncogene 14: 1445-1451.
- Oda, T., Kayukawa, K., Hagiwara, H., Yudate, H.T., Masuho, Y., Murakami, Y., Tamura, T.A. and Muramatsu, M.A. 2000. A novel TATA-binding proteinbinding protein, ABT1, activates basal transcription and has a yeast homolog that is essential for growth. Mol. Cell. Biol. 20: 1407-1418.
- 5. Locuslink. http://www.ncbi.nlm.nih.gov/locuslink. LocusID 29777

## **CHROMOSOMAL LOCATION**

Genetic locus: ABT1 (human) mapping to 6p22.1.

# **SOURCE**

ABT1 (D-22) is a Protein A purified rabbit polyclonal antibody raised against synthetic ABT1 peptide of human origin.

## **STORAGE**

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

# **PROTOCOLS**

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

### **PRODUCT**

Each vial contains 100  $\mu g$  IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## **APPLICATIONS**

ABT1 (D-22) is recommended for detection of ABT1 of 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

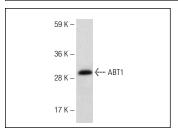
Molecular Weight of ABT1: 31 kDa.

Positive Controls: human fetal heart tissue extract.

## **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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



ABT1 (D-22): sc-130935. Western blot analysis of ABT1 expression in human fetal heart tissue extract

# **RESEARCH USE**

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