

BOLA1 (W-20): sc-101894

BACKGROUND

BOLA1 (BoLA-like protein 1), also known as CGI-143, is a member of the BoLA/yrbA family of proteins. Members of this family are homologs of the *Escherichia coli* protein BoLA. BoLA-like proteins are evolutionarily conserved from prokaryotes to eukaryotes and are believed to play a role in cell-cycle regulation or cell proliferation, possibly via some sort of transcription regulation of other genes. In addition, BoLA-like proteins may contain nucleic-acid binding properties, as is suggested by a fold structure that is similar to the KH-fold, a motif known to participate in nucleic-acid binding. Characteristic of BoLA-like proteins which typically consist of approximately 100 amino acids, BOLA1 is a 137 amino acid protein.

REFERENCES

- Lai, C.H., Chou, C.Y., Ch'ang, L.Y., Liu, C.S. and Lin, W. 2000. Identification of novel human genes evolutionarily conserved in *Caenorhabditis elegans* by comparative proteomics. *Genome Res.* 10: 703-713.
- Serapion, J., Kucuktas, H., Feng, J. and Liu, Z. 2004. Bioinformatic mining of type I microsatellites from expressed sequence tags of channel catfish (*Ictalurus punctatus*). *Mar. Biotechnol.* 6: 364-377.
- Kasai, T., Inoue, M., Koshiba, S., Yabuki, T., Aoki, M., Nunokawa, E., Seki, E., Matsuda, T., Matsuda, N., Tomo, Y., Shirouzu, M., Terada, T., Obayashi, N., Hamana, H., Shinya, N., Tatsuguchi, A., Yasuda, S., Yoshida, M., et al. 2004. Solution structure of a BoLA-like protein from *Mus musculus*. *Protein Sci.* 13: 545-548.
- Beausoleil, S.A., Villén, J., Gerber, S.A., Rush, J. and Gygi, S.P. 2006. A probability-based approach for high-throughput protein phosphorylation analysis and site localization. *Nat. Biotechnol.* 24: 1285-1292.

CHROMOSOMAL LOCATION

Genetic locus: BOLA1 (human) mapping to 1q21.2.

SOURCE

BOLA1 (W-20) is a purified rabbit polyclonal antibody raised against BOLA1 of human origin.

APPLICATIONS

BOLA1 (W-20) is recommended for detection of BOLA1 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 BOLA1 siRNA (h): sc-88760, BOLA1 shRNA Plasmid (h): sc-88760-SH and BOLA1 shRNA (h) Lentiviral Particles: sc-88760-V.

Molecular Weight of BOLA1: 14 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, fetal heart tissue extract or MCF7 whole cell lysate: sc-2206.

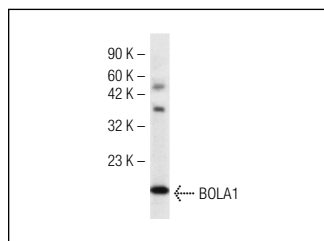
PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

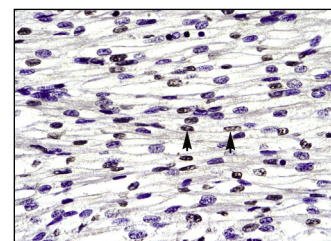
RECOMMENDED SECONDARY REAGENTS

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



BOLA1 (W-20): sc-101894. Western blot analysis of BOLA1 expression in human fetal heart tissue extract.



BOLA1 (W-20): sc-101894. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart tissue showing nuclear staining.

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.