



## BOLA1 (E-12): sc-131440

### 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

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- 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; Bola1 (mouse) mapping to 3 F2.1.

### SOURCE

BOLA1 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BOLA1 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-131440 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

### APPLICATIONS

BOLA1 (E-12) is recommended for detection of BOLA1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with BOLA2, BOLA2B or BOLA3.

Suitable for use as control antibody for BOLA1 siRNA (h): sc-88760, BOLA1 siRNA (m): sc-141723, BOLA1 shRNA Plasmid (h): sc-88760-SH, BOLA1 shRNA Plasmid (m): sc-141723-SH, BOLA1 shRNA (h) Lentiviral Particles: sc-88760-V and BOLA1 shRNA (m) Lentiviral Particles: sc-141723-V.

Molecular Weight of BOLA1: 14 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or MCF7 whole cell lysate: sc-2206.

### 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) 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.

### RESEARCH USE

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