BOLA1 (32.2): sc-81824



The Power to Question

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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- 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., Hirota, H., Matsuo, Y., Tani, K., Suzuki, H., 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

 $\ensuremath{\mathsf{BOLA1}}$ (32.2) is a mouse monoclonal antibody raised against recombinant $\ensuremath{\mathsf{BOLA1}}$ of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

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 for detailed protocols and support products.

APPLICATIONS

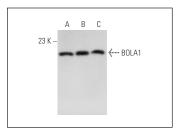
BOLA1 (32.2) is recommended for detection of BOLA1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

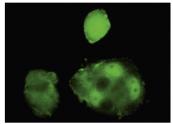
Molecular Weight of BOLA1: 14 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

DATA







BOLA1 (32.2): sc-81824. Immunofluorescence staining of paraformaldehyde-fixed MCF7 cells showing nuclear and cytoplasmic localization.

RESEARCH USE

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

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