SANTA CRUZ BIOTECHNOLOGY, INC.

BOLA1 (C-14): sc-131439

SANTA CRUZ BIOTECHNOLOGY

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

1. Lai, C.H., et al. 2000. Identification of novel human genes evolutionarily conserved in *Caenorhabditis elegans* by comparative proteomics. Genome Res. 10: 703-713.
2. Serapion, J., et al. 2004. Bioinformatic mining of type I microsatellites from expressed sequence tags of channel catfish *(Ictalurus punctatus).* Mar. Biotechnol. 6: 364-377.
3. Kasai, T., et al. 2004. Solution structure of a BolA-like protein from *Mus musculus.* Protein Sci. 13: 545-548.
4. Beausoleil, S.A., et al. 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 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus 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-131439 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.

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.

APPLICATIONS

BOLA1 (C-14) 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.

BOLA1 (C-14) is also recommended for detection of BOLA1 in additional species, including porcine.

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.