SANTA CRUZ BIOTECHNOLOGY, INC.

Bex4 (G-16): sc-66735

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The brain-expressed X-linked (Bex) family of proteins is expressed in the central nervous system, with highest levels detected in cerebellum, temporal lobe and pituitary tissues. Bex4, also known as Bex1-like 1, TCEAL7 or nerve growth factor receptor-associated protein 3, is a member of the Bex family involved in cell death regulation. It is expressed highly in heart, skeletal muscle and liver localizing to the nucleus and the cytoplasm. Bex4 is frequently downregulated or inactivated by methylation in ovarian tumors and cancer cell lines. Forced expression of Bex4 induces apoptosis and reduces colony formation. This suggests that Bex4 acts as a tumor suppressor. Bex4 shares 50% sequence homology with the apoptosis-inducing domain of Bex3 and 77% sequence homology with its regulatory domain. Bex4 is located on the X chromosome and is subject to X chromosome inactivation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Bex4 (rat) mapping to Xq35.

SOURCE

Bex4 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Bex4 of rat origin.

STORAGE

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

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-66735 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Bex4 (G-16) is recommended for detection of Bex4 of rat 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).

Molecular Weight of Bex4: 14 kDa.

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.

PROTOCOLS

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