BACKGROUND

BI-1 (bax inhibitor 1), also designated testis enhanced gene transcript (TEGT), is a regulator of cell death pathways controlled by Bcl-2 and Bax. BI-1 is an integral membrane protein containing six membrane-spanning segments and is predominantly localized to intracellular membranes, similar to Bcl-2 family proteins. The human protein contains 237 amino acids. BI-1 can interact with Bcl-2 and Bcl-xL. When overexpressed in mammalian cells, BI-1 suppresses apoptosis induced by Bax, etoposide, staurosporine and growth factor deprivation. BI-1 antisense induces apoptosis.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TEGT (human) mapping to 12q13.12; Tegt (mouse) mapping to 15 F1.

SOURCE

BI-1 (FL-237) is a rabbit polyclonal antibody raised against amino acids 1-237 representing full length BI-1 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.

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.

APPLICATIONS

BI-1 (FL-237) is recommended for detection of BI-1 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 BI-1 siRNA (h): sc-37298, BI-1 siRNA (m): sc-37299, BI-1 shRNA Plasmid (h): sc-37298-SH, BI-1 shRNA Plasmid (m): sc-37299-SH, BI-1 shRNA (h) Lentiviral Particles: sc-37298-V and BI-1 shRNA (m) Lentiviral Particles: sc-37299-V.

Molecular Weight of BI-1: 26 kDa.

Positive Controls: human testis extract: sc-363781.

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.

DATA

BI-1 (FL-237): sc-28225. Western blot analysis of BI-1 expression in human testis tissue extract.

PROTOCOLS

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