**BACKGROUND**

Members of the Bcl-2 family of proteins interact to regulate programmed cell death, or apoptosis. Various homodimers and heterodimers formed by proteins in this family can either promote or inhibit apoptosis. Bcl-2 blocks cell death following a variety of stimuli and confers a death-sparing effect on certain hematopoietic cell lines following growth factor withdrawal. Additional apoptotic inhibitors in this family include A1, Bag-1, Bcl-w, Bcl-x and Mcl-1. Pro-apoptotic members of this family include Bax, Bad, Bak, Bik (NBK) and BID. BID contains a BH3 domain which allows it to dimerize with and counter the death repressor effects of Bcl-2. BID has also been shown to heterodimerize with Bcl-x and the death agonist Bax. BID is localized predominantly in the cytosol and is also present in membrane fractions. It is highly expressed in kidney and can also be detected in brain, spleen, liver, testis and lung.

**CHROMOSOMAL LOCATION**

Genetic locus: BID (human) mapping to 22q11.21.

**SOURCE**

BID (B-3) is a mouse monoclonal antibody raised against amino acids 1-195 representing full length BID of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

BID (B-3) is available conjugated to agarose (sc-373939 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373939 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373939 PE), fluorescein (sc-373939 FITC), Alexa Fluor® 488 (sc-373939 AF488), Alexa Fluor® 546 (sc-373939 AF546), Alexa Fluor® 594 (sc-373939 AF594) or Alexa Fluor® 647 (sc-373939 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373939 AF680) or Alexa Fluor® 790 (sc-373939 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

BID (B-3) is recommended for detection of BID of human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 BID siRNA (h): sc-29800, BID shRNA Plasmid (h): sc-29800-SH and BID shRNA (h) Lentiviral Particles: sc-29800-V.

Molecular Weight of BID: 22 kDa.

Positive Controls: DU 145 cell lysate: sc-2268, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

**STORAGE**

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

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**SELECT PRODUCT CITATIONS**


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**PROTOCOLS**

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

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