

Bak (N-20): sc-1035

BACKGROUND

The Bcl-2 family of proteins is characterized by its ability to modulate cell death (apoptosis) under a broad range of physiologic conditions. Bcl-2 and several related proteins function to inhibit apoptosis, while other members of the Bcl-2 family, such as Bax, accelerate death under various conditions. One member of the Bcl-2 family, designated Bak, functions primarily to enhance apoptotic cell death following appropriate activating signals and, in addition, counteracts the protection from apoptosis provided by Bcl-2. Expression of Bak is widespread in a broad range of cells, including various long-lived, terminally differentiated cell types, suggesting that its cell-death-inducing activity is broadly distributed and that the regulation of inhibitors of apoptosis may represent an important determinant of tissue-specific modulation of apoptosis.

CHROMOSOMAL LOCATION

Genetic locus: BAK1 (human) mapping to 6p21.31.

SOURCE

Bak (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Bak 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-1035 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Bak (N-20) is recommended for detection of Bak of 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 Bak siRNA (h): sc-29786, Bak shRNA Plasmid (h): sc-29786-SH and Bak shRNA (h) Lentiviral Particles: sc-29786-V.

Molecular Weight of Bak: 30 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, A-431 whole cell lysate: sc-2201 or MOLT-4 cell lysate: sc-2233.

STORAGE

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

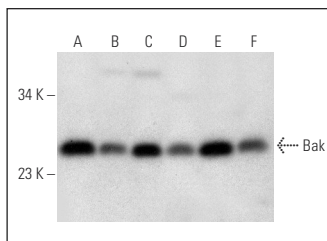
PROTOCOLS

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

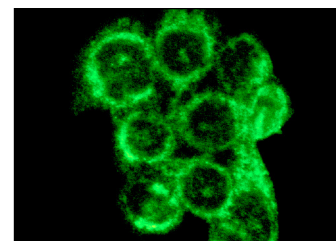
RESEARCH USE

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

DATA



Bak (N-20): sc-1035. Western blot analysis of Bak expression in MOLT-4 (A), HeLa (B), A-431 (C), Hep G2 (D), THP-1 (E) and Jurkat (F) whole cell lysates.



Bak (N-20): sc-1035. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

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