

Bak (G-23): sc-832



The Power to Question

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; Bak1 (mouse) mapping to 17 A3.3.

SOURCE

Bak (G-23) is available as either rabbit (sc-832) or goat (sc-832-G) polyclonal affinity purified antibody raised against a peptide mapping within an internal region 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-832 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.1% BSA).

Available as agarose conjugate for immunoprecipitation, sc-832 AC, 500 µg/0.25 ml agarose in 1 ml.

APPLICATIONS

Bak (G-23) is recommended for detection of Bak 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).

Bak (G-23) is also recommended for detection of Bak in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Bak siRNA (h): sc-29786, Bak siRNA (m): sc-29785, Bak shRNA Plasmid (h): sc-29786-SH, Bak shRNA Plasmid (m): sc-29785-SH, Bak shRNA (h) Lentiviral Particles: sc-29786-V and Bak shRNA (m) Lentiviral Particles: sc-29785-V.

Molecular Weight of Bak: 30 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, A-431 whole cell lysate: sc-2201 or MOLT-4 cell lysate: sc-2233.

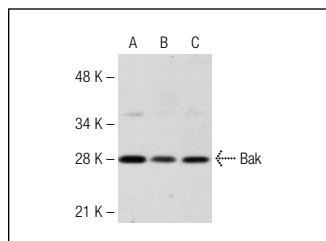
RESEARCH USE

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

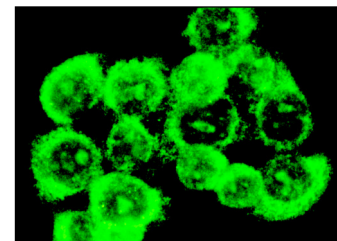
STORAGE

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

DATA



Bak (G-23): sc-832. Western blot analysis of Bak expression in A-431 (A), HeLa (B) and MOLT-4 (C) whole cell lysates.



Bak (G-23): sc-832. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

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- Kuo, T.C., et al. 2011. WJ9708012 exerts anticancer activity through PKC- α related crosstalk of mitochondrial and endoplasmic reticulum stresses in human hormone-refractory prostate cancer cells. *Acta Pharmacol. Sin.* 32: 89-98.
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