

Technical Data Sheet

Polyclonal Rabbit Anti-Bak

Product Information

Material Number:	556396
Size:	0.1 ml
Clone:	Polyclonal
Immunogen:	Human Bak aa. 14-36 Peptide
Isotype:	Rabbit Ig
Reactivity:	QC Testing: Human Reported: Mouse, Rat
Target MW:	22-24 kDa
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide and $\leq 0.03\%$ thimerosal

Description

Bak (for Bcl-2 homologous Antagonist/Killer) is a recently identified member of the Bcl-2 family. Bcl-2 family members are involved in mediating programmed cell death or apoptosis, and share two highly conserved functional regions, Bcl-2 homology 1 and 2 (BH1 and BH2). Several of the family members including Bcl-2 act as inhibitors of apoptosis, whereas others such as Bax promote cell death. Like Bax, Bak primarily promotes apoptosis. However, unlike Bax, Bak has also been shown to inhibit cell death. For example, expression of Bak in a human lymphoblastoid cell line protected it from apoptosis induced by serum deprivation and menadione oxidation. It is thus thought that the function of Bak may be context dependent. Bak mRNA has been identified in a wide variety of fetal and adult tissues, with the highest levels observed in heart and skeletal muscle. The apparently ubiquitous expression of Bak has led to the suggestion that its function may be mediated by cell death inhibitory factors, particularly in cell types with a long life span. This polyclonal antibody has been reported not to cross-react with other members of the Bcl-2 family, including Bcl-2, Bcl-XL, Bcl-XS, Bax, and Mcl-1.

Preparation and Storage

Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
Immunohistochemistry-paraffin	Reported

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Investigators are highly encouraged to titrate the antibody for optimal results. Suggested starting dilutions range from 1:500-1:4000. It has been reported that in skeletal muscle lysates, an additional 22 kD band may be observed representing a breakdown product or alternatively spliced variant of Bak. Other cell lines that may be useful for examining for Bak include: HEK-293 cells (Human embryonic kidney cells; ATCC CRL-1573), Jurkat cells (Human T-cell leukemia; ATCC TIB-152), Daudi cells (Human B lymphoblast; ATCC CCL-213), and Ramos cells (Burkitt's lymphoma; Human B-lymphoblast; ATCC CRL-1596).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554021	HRP Goat Anti-Rabbit Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. This product contains thimerosal, an organic mercury compound. Mercury and mercury compounds are chemicals known to the State of California to cause birth defects or other reproductive harm. Foreseeable use of this product does not pose a known reproductive toxicity threat.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

- Krajewski M, Moss SF, Krajewski S, Song K, Holt PR, Reed JC. Elevated expression of Bcl-X and reduced Bak in primary colorectal adenocarcinomas. *Cancer Res.* 1996; 56(10):2422-2427. (Immunogen: Immunohistochemistry)
- Krajewski S, Krajewski M, Shabaik A, et al. Immunohistochemical analysis of in vivo patterns of Bcl-X expression. *Cancer Res.* 1994; 54(21):5501-5507. (Immunogen: Immunohistochemistry, Western blot)
- Krajewski S, Zapata JM, Reed JC. Detection of multiple antigens on western blots. *Anal Biochem.* 1996; 236(2):221-228. (Biology: Western blot)

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