

#3814
Store at -20C**Bak Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit	UniProt ID: #Q16611	Entrez-Gene Id: 578
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Product Usage Information**Application**

Western Blotting
Simple Western™

Dilution

1:1000
1:10 - 1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Bak Antibody detects endogenous levels of Bak protein. No cross reactivity was detected with other Bcl-2 family members.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly82 of human Bak. Antibodies were purified by protein A and peptide affinity chromatography.

Background

Bak is a proapoptotic member of the Bcl-2 family (1). This protein is located on the outer membrane of mitochondria and is an essential component for transduction of apoptotic signals through the mitochondrial pathway (2,3). Upon apoptotic stimulation, an upstream stimulator like truncated BID (tBID) induces conformational changes in Bak to form oligomer channels in the mitochondrial membrane for cytochrome c release. The release of cytochrome c to the cytosol activates the caspase-9 pathway and eventually leads to cell death (4,5).

Background References

- Gross, A. et al. (1999) *Genes Dev.* 13, 1899-1911.
- Wei, M.C. et al. (2001) *Science* 292, 727-730.
- Zong, W.X. et al. (2001) *Genes Dev.* 15, 1481-1486.
- Degenhardt, K. et al. (2002) *J. Biol. Chem.* 277, 14127-14134.
- Wei, M.C. et al. (2000) *Genes Dev.* 14, 2060-2071.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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