

Datasheet for ABIN3044400
anti-BAK1 antibody (Middle Region)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	BAK1
Binding Specificity:	AA 74-95, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-BAK/BAK1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human BAK1, different from the related mouse and rat sequences by one amino acid.
Sequence:	QVGRQLALIG DDINRRYDSE FQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-BAK/BAK1 Antibody (ABIN3044400). Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: BAK1

Alternative Name: BAK1 ([BAK1 Products](#))

Background: Synonyms: Bcl-2 homologous antagonist/killer, Apoptosis regulator BAK, Bcl-2-like protein 7, Bcl2-L-7, BAK1, BAK, BCL2L7, CDN1,
Tissue Specificity: Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle.
Background: BAK, officially called Bcl2 antagonist killer, is a protein that in humans, encoded by the BAK gene. The BAK protein is a pro-apoptotic member of the Bcl-2 gene family which is involved in initiating apoptosis. BAK gene spans 7.6 kb and contains 6 exons. By Southern blot analysis of genomic DNA from human/rodent somatic cell hybrids, BAK gene is localized to chromosome 6. This protein localizes to mitochondria, and functions to induce apoptosis. It interacts with and accelerates the opening of the mitochondrial voltage-dependent anion channel, which leads to a loss in membrane potential and the release of cytochrome. This protein also interacts with the tumor suppressor P53 after exposure to cell stress.
Sequence Similarities: Belongs to the Bcl-2 family.

Molecular Weight: 23 kDa

UniProt: [Q16611](#)

Pathways: [Apoptosis](#), [Steroid Hormone Mediated Signaling Pathway](#), [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Unfolded Protein Response](#)

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human, Rat
Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human
1. Chittenden, T., Harrington, E. A., O'Connor, R., Flemington, C., Lutz, R. J., Evan, G. I., Guild, B. C. Induction of apoptosis by the Bcl-2 homologue Bak. Nature 374: 733-736, 1995. 2. Herberg, J. A., Phillips, S., Beck, S., Jones, T., Sheer, D., Wu, J. J., Prochazka, V., Barr, P. J., Kiefer, M. C., Trowsdale, J. Genomic structure and domain organisation of the human Bak gene. Gene 211: 87-94, 1998. 3. Kiefer, M. C., Brauer, M. J., Powers, V. C., Wu, J. J., Umansky, S. R., Tomei, L. D.,

Application Details

Barr, P. J. Modulation of apoptosis by the widely distributed Bcl-2 homologue Bak. Nature 374: 736-739, 1995.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

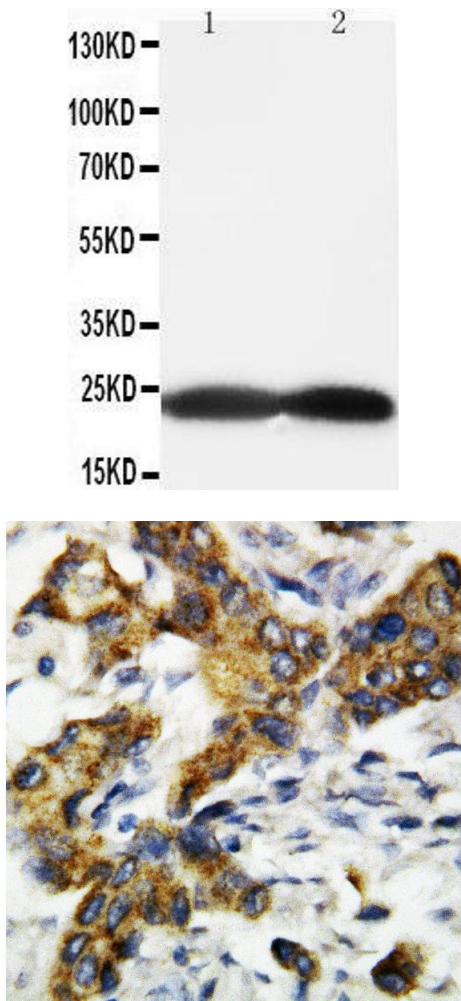
Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



Western Blotting

Image 1. Anti-BAK antibody, Western blotting All lanes: Anti BAK at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: Rat Brain Tissue Lysate at 50ug Predicted bind size: 23KD Observed bind size: 23KD

Immunohistochemistry

Image 2. Anti-BAK antibody, IHC(P) IHC(P): Rat Lung Tissue