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# Datasheet for ABIN3042342 anti-BAK1 antibody (AA 22-211)

10 Images

2 Publications



## Overview

| Quantity:                   | 100 µg   |
|-----------------------------|--|
| Target:                     | BAK1   |
| Binding Specificity:        | AA 22-211  |
| Reactivity:                 | Human, Mouse, Rat  |
| Host:                       | Rabbit   |
| Clonality:                  | Polyclonal   |
| Conjugate:                  | This BAK1 antibody is un-conjugated  |
| Application:                | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))   |
| Product Details             |  |
| Purpose:                    | Rabbit IgG polyclonal antibody for Bcl-2 homologous antagonist/killer(BAK1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.   |
| Immunogen:                  | E.coli-derived human BAK recombinant protein (Position: A22-S211). Human BAK shares 78.3<br>% amino acid (aa) sequence identity with mouse BAK.  |
| Isotype:                    | lgG  |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.   |
| Characteristics:            | Rabbit IgG polyclonal antibody for Bcl-2 homologous antagonist/killer(BAK1) detection. Tested<br>with WB, IHC-P in Human,Mouse,Rat.<br>Gene Name: BCL2-antagonist/killer 1<br>Protein Name: Bcl-2 homologous antagonist/killer |
| Purification:               | Immunogen affinity purified.   |

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| Tarat  | Dataila |
|--------|---------|
| rarget | Details |

| Target:             | BAK1   |
|---------------------|--|
| Alternative Name:   | BAK1 (BAK1 Products)   |
| 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.                               |
|                     | Synonyms: Apoptosis Regulator Bak antibody BAK antibody BAK like antibody Bak NT                     |
|                     | antibody BAK_HUMAN antibody BAK1 antibody Bcl 2 homologous antagonist/killer antibody Bc             |
|                     | 2 like 7 protein antibody Bcl-2 homologous antagonist/killer antibody Bcl-2-like protein 7           |
|                     | antibody BCL2 antagonist/killer 1 antibody Bcl2 like 7 Protein antibody Bcl2-L-7                     |
|                     | antibody BCL2L7 antibody CDN1 antibody Cell death inhibitor 1 antibody MGC117255                     |
|                     | antibody MGC3887 antibody  NBak antibody Pro apoptotic protein BAK antibody                          |
| Gene ID:            | 578  |
| UniProt:            | Q16611   |
| Pathways:           | Apoptosis, Steroid Hormone Mediated Signaling Pathway, ER-Nucleus Signaling, Positive                |
|                     | Regulation of Endopeptidase Activity, Unfolded Protein Response                                      |
| Application Details |  |
| Application Notes:  | WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat                                  |
|                     | IHC-P: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by      |
|                     | Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the |
|                     | staining of formalin/paraffin sections.  |
|                     | Notes: Tested Species: Species with positive results. Other applications have not been tested.       |
|                     | Optimal dilutions should be determined by end users.   |
| Comment:            | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by                    |

Restrictions:

For Research Use only

ABIN921231 in IHC(P).

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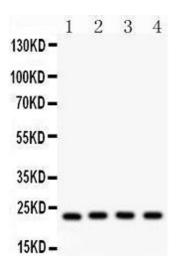
## Handling

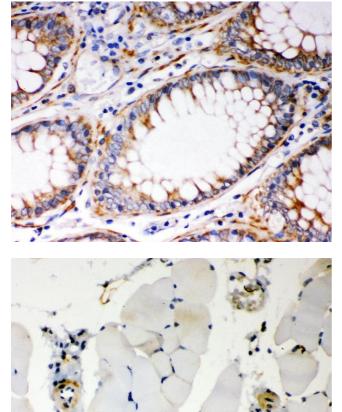
| Handling Advice:Avoid repeated freezing and thawing.Storage:4 °C/-20 °CStorage Comment:At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing  |                    |  |
|--|--------------------|--|
| Concentration:500 µg/mLBuffer:Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.Preservative:Sodium azidePrecaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE whi<br>should be handled by trained staff only.Handling Advice:Avoid repeated freezing and thawing.Storage:4 °C/-20 °CStorage Comment:At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated free | Format:            | Lyophilized  |
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| Preservative:Sodium azidePrecaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE whi<br>should be handled by trained staff only.Handling Advice:Avoid repeated freezing and thawing.Storage:4 °C/-20 °CStorage Comment:At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing  | Concentration:     | 500 μg/mL  |
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# Publications

Product cited in:Zuo, Wu, Xu, Yang, Yan, Tan, Meng, Ying, Liu, Kang, Huang: "Minicircle-oriP-IFNγ: a novel<br/>targeted gene therapeutic system for EBV positive human nasopharyngeal carcinoma." in: PLoSONE, Vol. 6, Issue 5, pp. e19407, (2011) (PubMed).

Tong, Zheng, Wang, Liu, Qian: "BAK overexpression mediates p53-independent apoptosis inducing effects on human gastric cancer cells." in: **BMC cancer**, Vol. 4, pp. 33, (2004) (PubMed ).





### Western Blotting

**Image 1.** Anti- BAK Picoband antibody, Western blotting All lanes: Anti BAK at 0.5ug/ml Lane 1: Rat Skeletal Muscle Tissue Lysate at 50ug Lane 2: Mouse Cardiac Muscle Tissue Lysate at 50ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD

#### Immunohistochemistry

**Image 2.** Anti- BAK Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

#### Immunohistochemistry

**Image 3.** Anti- BAK Picoband antibody, IHC(P) IHC(P): Mouse Skeletal Muscle Tissue

Please check the product details page for more images. Overall 10 images are available for ABIN3042342.

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