

Datasheet for ABIN388118
anti-BAD antibody (AA 92-127)



[Go to Product page](#)

3 Images

Overview

| | |
|----------------------|---|
| Quantity: | 400 µL |
| Target: | BAD |
| Binding Specificity: | AA 92-127 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This BAD antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS) |

Product Details

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|---------------|--|
| Immunogen: | This Bad BH3 Domain antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-127 amino acids from human Bad BH3 Domain. |
| Clone: | RB4617 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

Target Details

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|-------------------|--------------------------------------|
| Target: | BAD |
| Alternative Name: | Bad (BAD Products) |

Target Details

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|-------------------|--|
| Background: | Apoptosis or programmed cell death is a physiological cellular process characterized by cell shrinkage, membrane blebbing, DNA fragmentation, and release of Cytochrome C from the mitochondria. It is utilized by the organism to get rid of unwanted cells, which is critical for normal development and homeostasis of an organism. Disregulation of normal apoptosis process have been implicated in a variety of diseases, including cancer, autoimmune diseases, viral infections, etc. Programmed cell death occurs through complex cascades of cell signaling in which Bcl-2 family members, among others, play an important role. The Bcl-2 family of proteins regulate apoptosis as well as execute death signals at the mitochondrion. Members of this family include both pro- and anti-apoptotic proteins that have homology sequences called Bcl-2 Homology domains (BH1-4) which mediate dimer formation. The BH3 proteins, such as BID, NOXA, PUMA, BIK, BIM and BAD are all pro-apoptotic and share sequence homology within the amphipathic alpha-helical BH3 region, which is required for their apoptotic function. They may trigger release of death-inducing molecules such as Cytochrome C, Smac, and endonuclease G. Anti-apoptotic family members, including Bcl-2 and Bcl-XL, play inhibitory roles. Bcl-2 family proteins may form homodimers or heterodimers between pro- and anti-apoptotic members, the ratios of which determine the cell fate. |
| Molecular Weight: | 18392 |
| Gene ID: | 572 |
| NCBI Accession: | NP_004313 , NP_116784 |
| UniProt: | Q92934 |
| Pathways: | MAPK Signaling , PI3K-Akt Signaling , RTK Signaling , Apoptosis , Fc-epsilon Receptor Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Carbohydrate Homeostasis , Positive Regulation of Endopeptidase Activity , Regulation of Carbohydrate Metabolic Process , Hepatitis C , CXCR4-mediated Signaling Events |

Application Details

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| Application Notes: | WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50 |
| Restrictions: | For Research Use only |

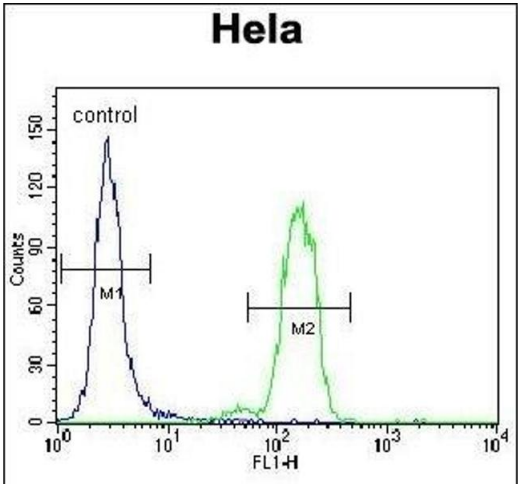
Handling

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| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |

Handling

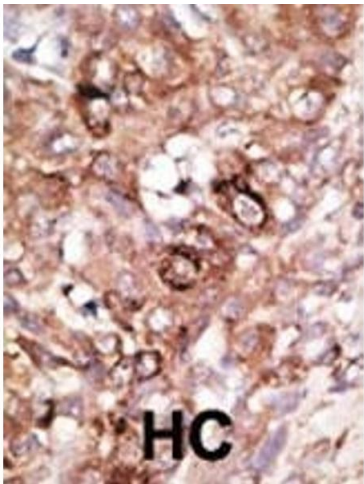
| | |
|--------------------|--|
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

Images



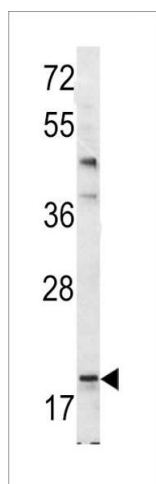
Flow Cytometry

Image 1. Bad BH3 Domain Antibody (ABIN388118 and ABIN2846287) flow cytometric analysis of Hela cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 3. Western blot analysis of Bad BH3 Domain antibody (ABIN388118 and ABIN2846287) in mouse bladder tissue lysates (35 µg/lane). Bad (arrow) was detected using the purified Pab.