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Bim BH3 Domain Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1308a

Specification

Bim BH3 Domain Antibody - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O43521
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**130-165**

Bim BH3 Domain Antibody - Additional Information

Gene ID 10018

Other Names
Bcl-2-like protein 11, Bcl2-L-11, Bcl2-interacting mediator of cell death, BCL2L11, BIM

Target/Specificity
This Bim BH3 Domain antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 130-165 amino acids from human Bim BH3 Domain.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Bim BH3 Domain Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Bim BH3 Domain Antibody - Protein Information

Name BCL2L11

Synonyms BIM

Function Induces apoptosis and anoikis. Isoform BimL is more potent than isoform BimEL. Isoform

Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than isoform BimEL, isoform BimL and isoform BimS. Isoform Bim-gamma induces apoptosis. Isoform Bim-alpha3 induces apoptosis possibly through a caspase- mediated pathway. Isoform BimAC and isoform BimABC lack the ability to induce apoptosis.

Cellular Location
Endomembrane system; Peripheral membrane protein. Note=Associated with intracytoplasmic membranes. [Isoform BimL]: Mitochondrion. [Isoform Bim-alpha1]: Mitochondrion.

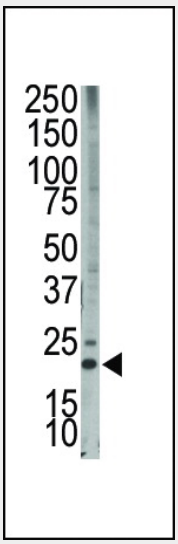
Tissue Location
Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms and are widely expressed with tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in lower levels in spleen, prostate, testis, heart, liver and kidney.

Bim BH3 Domain Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Bim BH3 Domain Antibody - Images



The anti-Bim BH3 domain Pab (Cat. #AP1308a) is used in Western blot to detect Bim BH3 in HL-60 cell lysate.

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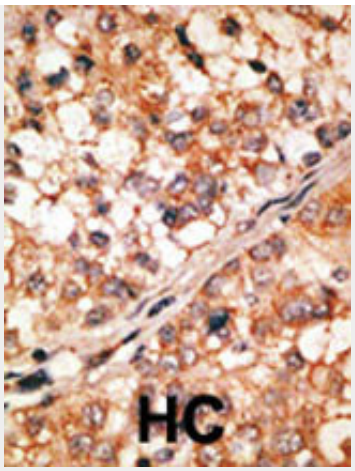

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast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

Bim BH3 Domain Antibody - Background

Bim belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. Bim contains a Bcl-2 homology domain 3 (BH3). It has been shown to interact with other members of the BCL-2 protein family, including BCL2, BCL2L1/BCL-X(L), and MCL1, and to act as an apoptotic activator. The expression of this gene can be induced by nerve growth factor (NGF), as well as by the forkhead transcription factor FKHR-L1, which suggests a role of this gene in neuronal and lymphocyte apoptosis. Transgenic studies of the mouse counterpart suggested that this gene functions as an essential initiator of apoptosis in thymocyte-negative selection.

Bim BH3 Domain Antibody - References

Chen, D., et al., Proc. Natl. Acad. Sci. U.S.A. 101(5):1235-1240 (2004).
Luciano, F., et al., Oncogene 22(43):6785-6793 (2003).
Sunters, A., et al., J. Biol. Chem. 278(50):49795-49805 (2003).
Reginato, M.J., et al., Nat. Cell Biol. 5(8):733-740 (2003).
Chen, D., et al., EMBO J. 21(24):6801-6810 (2002).

Bim BH3 Domain Antibody - Citations

- Role of Sirtuin3 in high glucose-induced apoptosis in renal tubular epithelial cells.
- BCL-2 dependence and ABT-737 sensitivity in acute lymphoblastic leukemia.