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Phospho-Bik(T33) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3042a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q13323
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB7170
Calculated MW	18016

Additional Information

Gene ID	638
Other Names	Bcl-2-interacting killer, Apoptosis inducer NBK, BIP1, BP4, BIK, NBK
Target/Specificity	This Bik Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T33 of human Bik.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	Phospho-Bik(T33) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BIK {ECO:0000303|PubMed:7478623, ECO:0000312|HGNC:HGNC:1051}
Function	Accelerates programmed cell death. Association to the apoptosis repressors Bcl-X(L), BHRF1, Bcl-2 or its adenovirus homolog E1B 19k protein suppresses this death-promoting activity. Does not interact with BAX.
Cellular Location	Endomembrane system; Single-pass membrane protein. Mitochondrion membrane {ECO:0000250|UniProtKB:O70337}; Single-pass membrane

protein. Note=Around the nuclear envelope, and in cytoplasmic membranes.

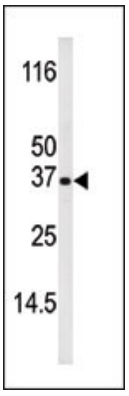
Background

The protein encoded by this gene is known to interact with cellular and viral survival-promoting proteins, such as BCL2 and the Epstein-Barr virus in order to enhance programed cell death. Because its activity is suppressed in the presence of survival-promoting proteins, this protein is suggested as a likely target for antiapoptotic proteins. This protein shares a critical BH3 domain with other death-promoting proteins, BAX and BAK.

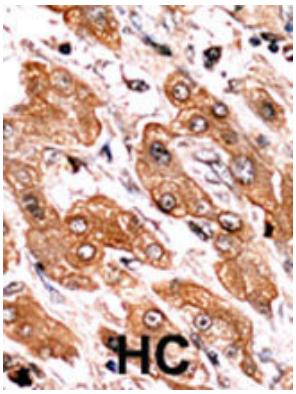
References

Nikrad, M., et al., Mol. Cancer Ther. 4(3):443-449 (2005).
Dong, F., et al., Infect. Immun. 73(3):1861-1864 (2005).
Hur, J., et al., Proc. Natl. Acad. Sci. U.S.A. 101(8):2351-2356 (2004).
Gillissen, B., et al., EMBO J. 22(14):3580-3590 (2003).
Arena, V., et al., Genes Chromosomes Cancer 38(1):91-96 (2003).

Images



Western blot analysis of anti-Bik Pab (Cat. #AP3042a) in mouse liver tissue lysate (35ug/lane). Bik(arrow) was detected using the purified Pab.



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.