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Bik BH3 Domain Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1319a

Product Information

Application	IHC-P, WB, E
Primary Accession	Q13323
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18016
Antigen Region	39-74

Additional Information

Gene ID	638
Other Names	Bcl-2-interacting killer, Apoptosis inducer NBK, BIP1, BP4, BIK, NBK
Target/Specificity	This Bik BH3 Domain antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-74 amino acids from human Bik BH3 Domain.
Dilution	IHC-P~~1:100~500 WB~~1:1000 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	Bik BH3 Domain 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.

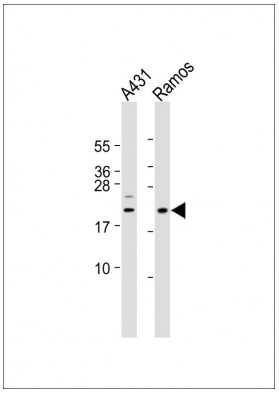
Background

The Bik protein is known to interact with cellular and viral survival-promoting proteins, such as BCL2 and the Epstein-Barr virus in order to enhance programmed 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.

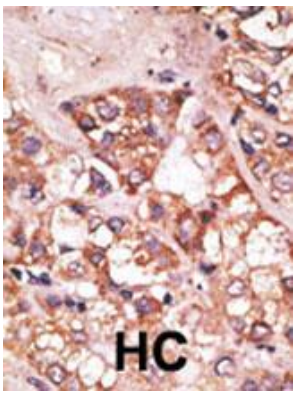
References

Arena, V., et al., Genes Chromosomes Cancer 38(1):91-96 (2003).
Gillissen, B., et al., EMBO J. 22(14):3580-3590 (2003).
Germain, M., et al., J. Biol. Chem. 277(20):18053-18060 (2002).
Zou, Y., et al., Cancer Res. 62(1):8-12 (2002).
Castells, A., et al., Gastroenterology 117(4):831-837 (1999).

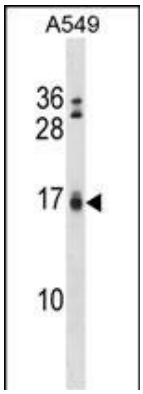
Images



All lanes : Anti-hBik-BH3 at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: Ramos whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 18 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



Bik Antibody (BH3) (Cat. #AP1319a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the Bik antibody detected the Bik protein (arrow).

Citations

- TNF pretreatment interferes with mitochondrial apoptosis in the mouse liver by A20-mediated down-regulation of Bax.