

**Bik Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	20	Rabbit	#Q13323	638

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

Bik Antibody detects endogenous levels of Bik protein. It does not cross-react with other Bcl-2 family members.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with synthetic peptide corresponding to residues surrounding Asp40 of human Bik protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

Bik/Nbk (Bcl-2-interacting killer/natural born killer) is a potent pro-apoptotic protein belonging to a group of Bcl-2 family members that includes Bad, Bid, Bim, Hrk, and Noxa, containing a BH3 domain but lacking other conserved domains, BH1 or BH2 (1,2). Functionally, Bik is able to bind to and antagonize anti-apoptotic Bcl-2 family members including Bcl-2, Bcl-xL, and viral homologs E1B-19K and EBV-BHFR1. The BH3 domain of Bik is essential for its apoptotic activity and interaction with survival proteins (3). Phosphorylation of Bik is correlated with an increase in its pro-apoptotic activity (4).

**Background References**

1. Boyd, J.M. et al. (1995) *Oncogene* 11, 1921-8.
2. Han, J. et al. (1996) *Mol Cell Biol* 16, 5857-64.
3. Tong, Y. et al. (2001) *Mol Cancer Ther* 1, 95-102.
4. Verma, S. et al. (2001) *J Biol Chem* 276, 4671-6.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human

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