

Datasheet: AHP1172

Description:	RABBIT ANTI BIK (N-TERMINAL)
Specificity:	BIK (N-TERMINAL)
Other names:	NBK
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			1 - 2ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to Bik were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	15 amino acid peptide from near the amino terminus of human Bik.

**External Database
Links**

UniProt:

[Q13323](#) [Related reagents](#)

Entrez Gene:

[638](#) BIK [Related reagents](#)

Synonyms

NBK

Specificity

Rabbit anti Human Bik antibody recognizes the N-terminal (NT) region of Bcl-2-interacting killer (Bik) also known as natural born killer (Nbk). Bik is a Bcl-2 homology domain 3 (BH3)-only protein of ~18 kDa which requires the BAX gene for activation. Bik forms heterodimers with various antiapoptotic proteins such as Bcl-2 and Bcl-XL, inhibiting their antiapoptotic function. This can result in the release of Ca²⁺ and cytochrome C into the cytosol, leading to apoptosis.

Loss of Bik is a common feature of clear-cell renal cell carcinoma (RCC), and is thought to act as a renal tissue-specific tumour suppressor gene.

Western Blotting

AHP1172 detects a band of approximately 18kDa in Jurkat cell lysates.

Further Reading

1. Mathai, J.P. *et al.* (2005) BH3-only BIK regulates BAX,BAK-dependent release of Ca²⁺ from endoplasmic reticulum stores and mitochondrial apoptosis during stress-induced cell death. [J. Biol. Chem. 280: 23829-23836.](#)
2. Real, P.J. *et al.* (2006) Transcriptional activation of the proapoptotic bik gene by E2F proteins in cancer cells. [FEBS Lett. 580: 5905-5909.](#)
3. Sturm, I. *et al.* (2006) Loss of the tissue-specific proapoptotic BH3-only protein Nbk/Bik is a unifying feature of renal cell carcinoma. [Cell Death Differ. 13: 619-627.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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