

Datasheet: AHP2556

Description:	RABBIT ANTI BAD (pSer112)
Specificity:	BAD (pSer112)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to BAD (pSer112) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
50% Glycerol

Immunogen

Phospho specific-peptide corresponding to residues surrounding serine 112 of human

BAD

External Database

Links

UniProt:

[Q92934](#)

[Related reagents](#)

Entrez Gene:

[572](#)

BAD

[Related reagents](#)

Synonyms

BBC6, BCL2L8

Specificity

Rabbit anti BAD (pSer112) antibody recognizes Bcl2-associated agonist of cell death (BAD), also known as Bcl-xL/Bcl-2-associated death promoter, Bcl-2 binding component 6 or Bcl2-L-8, when phosphorylated at serine 112.

Similar to the other Bcl-2 protein family members, Bax, Bak, Bid and Bcl-2, BAD has a pro-apoptotic function in the apoptosis signaling cascade.

The precise role of BAD in apoptosis signaling depends on BAD's post-translational modification status. Nonphosphorylated BAD forms heterodimers with the two anti-apoptotic Bcl-2 protein family members, Bcl-xL and Bcl-2 ([Zha *et al.* 1996](#)). The binding of BAD to Bcl-xL promotes apoptosis by inhibiting the apoptosis repressor function of Bcl-xL ([Yang *et al.* 1995](#)). Once serine phosphorylated, BAD is unable to heterodimerize with Bcl-xL and interacts with 14-3-3 proteins instead ([Masters *et al.* 1995](#)). This binding retains BAD in the cytoplasm and thereby enables Bcl-xL to suppress apoptosis ([Zha *et al.* 1996](#)). Phosphorylation of BAD at serine 112 is stimulated by activated MAPK kinases.

Further Reading

1. Zha, J. *et al.* (1996) Serine phosphorylation of death agonist BAD in response to survival factor results in binding to 14-3-3 not BCL-X(L) [Cell. 87 \(4\): 619-28.](#)
2. Yang, E. *et al.* (1995) Bad, a heterodimeric partner for Bcl-XL and Bcl-2, displaces Bax and promotes cell death [Cell. 80 \(2\): 285-91.](#)
3. Masters, S.C. *et al.* (2001) 14-3-3 inhibits Bad-induced cell death through interaction with serine-136 [Mol Pharmacol. 60 \(6\): 1325-31.](#)
4. Fang, X. *et al.* (1999) Regulation of BAD phosphorylation at serine 112 by the Ras-mitogen-activated protein kinase pathway [Oncogene. 18 \(48\): 6635-40.](#)

Storage

Store at -20°C

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

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](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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