

## Datasheet: AHP2422

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | RABBIT ANTI BAD     |
| <b>Specificity:</b>  | BAD                 |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Polyclonal Antibody |
| <b>Isotype:</b>      | Polyclonal IgG      |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Immunohistology - Paraffin | ■   |    |                | 1/50 - 1/200       |
| Western Blotting           | ■   |    |                | 1/500 - 1/2000     |
| Immunofluorescence         | ■   |    |                | 1/10 - 1/100       |

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.

|                                 |                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>           | Human                                                                                                                                                                   |
| <b>Species Cross Reactivity</b> | Reacts with: Rat<br>Based on sequence similarity, is expected to react with: Mouse<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species.  |
| <b>Product Form</b>             | Purified IgG - liquid                                                                                                                                                   |
| <b>Antiserum Preparation</b>    | Antiserum to BAD was raised by repeated immunisation of rabbits with highly purified antigen.<br>Purified IgG was prepared from whole serum by affinity chromatography. |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                                                                                               |
| <b>Preservative</b>             | 0.02% Sodium Azide                                                                                                                                                      |
| <b>Stabilisers</b>              | 50% Glycerol                                                                                                                                                            |
| <b>Immunogen</b>                | Synthetic human BAD peptide                                                                                                                                             |
| <b>External Database Links</b>  | <b>UniProt:</b><br><a href="#">Q92934</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">572</a> BAD <a href="#">Related reagents</a>       |

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|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                      | BBC6, BCL2L8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>                   | <p><b>Rabbit anti BAD antibody</b> recognizes human 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. Similar to the other Bcl-2 protein family members, Bax, Bak, Bid and Bock, BAD has a pro-apoptotic function in the apoptosis signaling cascade.</p> <p>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 (<a href="#">Zha et al. 1996</a>). The binding of BAD to Bcl-xL promotes apoptosis by inhibiting the apoptosis repressor function of Bcl-xL (<a href="#">Yang et al. 1995</a>). Once serine phosphorylated, BAD is unable to heterodimerize with Bcl-xL and interacts with 14-3-3 proteins instead (<a href="#">Masters et al. 1995</a>). This binding retains BAD in the cytoplasm and thereby enables Bcl-xL to suppress apoptosis (Zha et al. 1996).</p> |
| <b>Western Blotting</b>              | Rabbit anti BAD antibody detects a band of approximately 18 kDa in PC3 cell lysate under reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>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). <a href="#">Cell 87 (4): 619-28.</a></li> <li>2. Yang, E. et al. (1995) Bad, a heterodimeric partner for Bcl-XL and Bcl-2, displaces Bax and promotes cell death. <a href="#">Cell 80 (2): 285-91.</a></li> <li>3. Masters, S.C. et al. (2001) 14-3-3 inhibits Bad-induced cell death through interaction with serine-136. <a href="#">Mol. Pharmacol. 60 (6): 1325-31.</a></li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>                       | <p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Shelf Life</b>                    | 12 months from date of despatch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10049 available at: 10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Related Products

### Recommended Secondary Antibodies

|                                         |                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sheep Anti Rabbit IgG (STAR34...)       | <a href="#">FITC</a>                                                                                                                                   |
| Sheep Anti Rabbit IgG (STAR35...)       | <a href="#">RPE</a>                                                                                                                                    |
| Goat Anti Rabbit IgG (H/L) (STAR124...) | <a href="#">HRP</a>                                                                                                                                    |
| Goat Anti Rabbit IgG (Fc) (STAR121...)  | <a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>                                                                                    |
| Sheep Anti Rabbit IgG (2AB02...)        | <a href="#">Biotin</a>                                                                                                                                 |
| Sheep Anti Rabbit IgG (STAR36...)       | <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> ,<br><a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> |

### Recommended Useful Reagents

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

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