


## Product datasheet

# Anti-Bad antibody ab226461

4 Images

### Overview

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<b>Product name</b>	Anti-Bad antibody
<b>Description</b>	Rabbit polyclonal to Bad
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Cat, Dog, Chimpanzee, Monkey, Gorilla, Orangutan 
<b>Immunogen</b>	Synthetic peptide within Human Bad aa 1-50. The exact sequence is proprietary. (NP_004313.1). Database link: <a href="#">Q92934</a>
<b>Positive control</b>	IHC-P: Human ovarian carcinoma and prostate carcinoma tissues; Mouse renal cell carcinoma tissue.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab226461 was affinity purified using an epitope specific to Bad immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab226461** in the following tested applications.

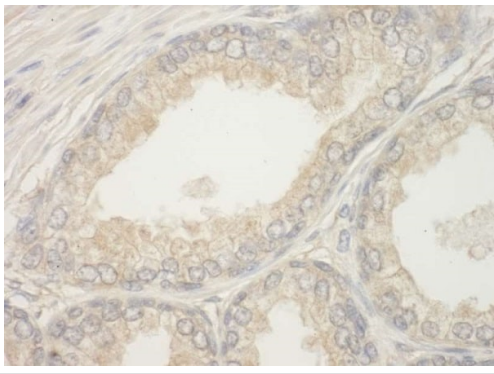
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500. Or 1/50 - 1/500 if using a fluorescent secondary antibody. Epitope exposure is recommended. Epitope exposure with citrate buffer will enhance staining.

## Target

<b>Function</b>	Promotes cell death. Successfully competes for the binding to Bcl-X(L), Bcl-2 and Bcl-W, thereby affecting the level of heterodimerization of these proteins with BAX. Can reverse the death repressor activity of Bcl-X(L), but not that of Bcl-2 (By similarity). Appears to act as a link between growth factor receptor signaling and the apoptotic pathways.
<b>Tissue specificity</b>	Expressed in a wide variety of tissues.
<b>Sequence similarities</b>	Belongs to the Bcl-2 family.
<b>Domain</b>	Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.
<b>Post-translational modifications</b>	Phosphorylated on one or more of Ser-75, Ser-99, Ser-118 and Ser-134 in response to survival stimuli, which blocks its pro-apoptotic activity. Phosphorylation on Ser-99 or Ser-75 promotes heterodimerization with 14-3-3 proteins. This interaction then facilitates the phosphorylation at Ser-118, a site within the BH3 motif, leading to the release of Bcl-X(L) and the promotion of cell survival. Ser-99 is the major site of AKT/PKB phosphorylation, Ser-118 the major site of protein kinase A (CAPK) phosphorylation. Ser-75 is phosphorylated by AKT/PKB, protein kinase A and PIM2.
<b>Cellular localization</b>	Mitochondrion outer membrane. Cytoplasm. Upon phosphorylation, locates to the cytoplasm.

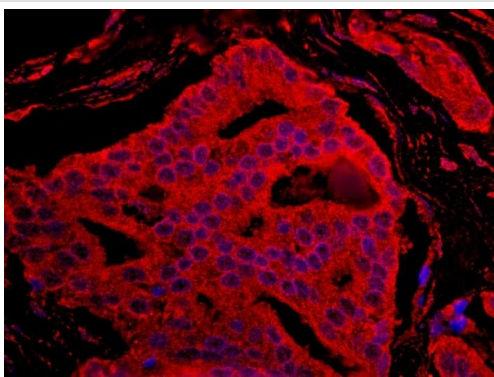
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bad antibody (ab226461)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Bad using ab226461 at 1/500 dilution in immunohistochemical analysis.

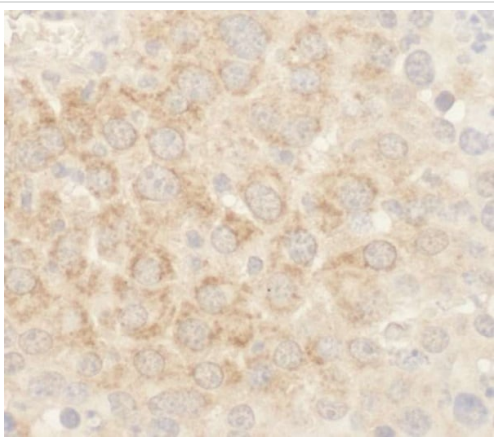
Detection: DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bad antibody (ab226461)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Bad using ab226461 at 1/100 dilution in immunohistochemical analysis.

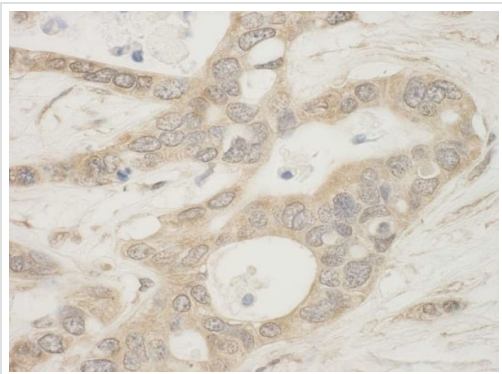
Detection: Red-fluorescent Goat Anti-Rabbit IgG (highly cross-absorbed) at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bad antibody (ab226461)

Formalin-fixed, paraffin-embedded mouse renal cell carcinoma tissue stained for Bad using ab226461 at 1/100 dilution in immunohistochemical analysis.

Detection: DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bad antibody (ab226461)

Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for Bad using ab226461 at 1/500 dilution in immunohistochemical analysis.

Detection: DAB staining.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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