

Bad (Phospho Ser91) Rabbit pAb

CatalogNo: YP0725 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Monkey

Applications

- WB, IHC, IF, ELISA

MW

- 22kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human BAD around the phosphorylation site of Ser91/128. AA range:61-110

Specificity

Phospho-Bad (S91) Polyclonal Antibody detects endogenous levels of Bad protein only when phosphorylated at S91. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ELSPF

Target Information

Gene name BAD

Protein Name Bcl2 antagonist of cell death

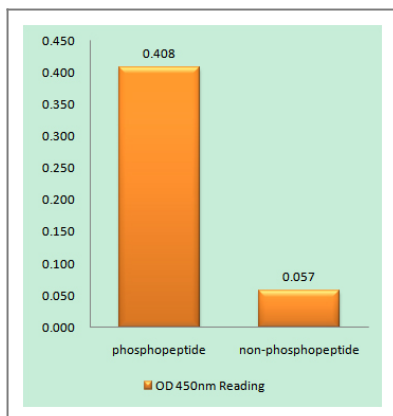
Organism	Gene ID	UniProt ID
Human	572;	Q92934;
Mouse	12015;	Q61337;
Rat	64639;	Q35147;

Cellular Localization Mitochondrion outer membrane. Cytoplasm . Colocalizes with HIF3A in the cytoplasm (By similarity) . Upon phosphorylation , locates to the cytoplasm. .

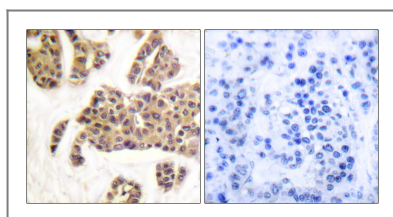
Tissue specificity Expressed in a wide variety of tissues.

Function Domain: 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. ,Function: 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. ,online information: Bcl 2-associated death promoter entry ,PTM: 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. ,similarity: Belongs to the Bcl-2 family. ,subcellular location: Upon phosphorylation , locates to the cytoplasm. ,subunit: Forms heterodimers with the anti-apoptotic proteins , Bcl-X (L) , Bcl-2 and Bcl-W. Also binds protein S100A10 (By similarity) . The Ser-75/Ser-99 phosphorylated form binds 14-3-3 proteins. ,tissue specificity: Expressed in a wide variety of tissues. ,

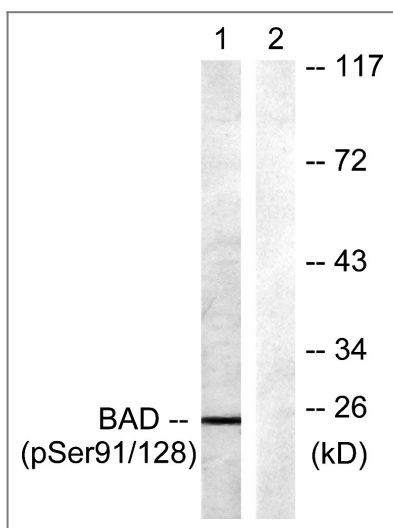
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BAD (Phospho-Ser91/128) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using BAD (Phospho-Ser91/128) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with TNF-a 20ng/ml+Calyculin A 50nM 5', using BAD (Phospho-Ser91/128) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

Orders: order.cn@immunoway.com
 Support: support.cn@immunoway.com
 Telephone: 400-8787-807(China)
 Website: <http://www.immunoway.com.cn>
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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