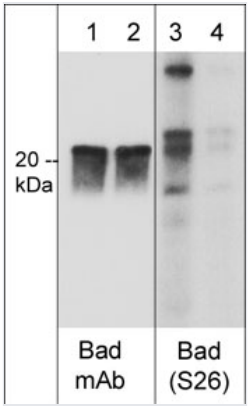
BAD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Bad, Polyclonal Antibody
Full Product Name	Bad (Ser-26), Phospho-Specific
Product Gene Name	anti-Bad antibody
Product Synonym Names	Bcl2 antagonist of cell death; Bcl-2-binding component 6; Bbc6; Bcl-xL/Bcl-2-associated death promoter
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat, Mouse
Form/Format	Supplied in 100ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Purity/Purification	Affinity Purified
Specificity	This antibody was affinity purified using phospho-Bad (Ser-26) peptide (without carrier). The antibody detects a 23 kDa* doublet corresponding to the apparent molecular mass of phosphorylated Bad on SDS-PAGE immunoblots of mouse J774A.1 treated with calyculin A. This reactivity is not observed after lambda phosphatase treatment.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.
Molecular Weight	23 kDa
3D Structure	ModBase 3D Structure for Q61337
Immunogen	Phospho-Bad (Ser-26) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding serine 26 in mouse Bad. This peptide sequence is highly conserved in rat Bad, but is not found in human Bad.
Applications Tested/Suitable for anti-Bad antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Bad antibody	ELISA: 1:1000 WB: 1:500 WB: Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.
Related Product Information for anti-Bad antibody	Bad is a member of the BCL-2 family of regulators involved in programmed cell death. This protein positively regulates cell apoptosis by forming heterodimers with BCL-xL and BCL-2, and reversing their death repressor activity. Proapoptotic activity of this protein is regulated through its phosphorylation. Protein kinases AKT IKK, and MAP kinases, as well as protein phosphatase calcineurin are found to be involved in the regulation of this Bad activity. Phosphorylation of Bad occurs on one or more of Ser-26, Ser-112, Ser-136, and Ser-155 in response to survival stimuli, which blocks its pro-apoptotic activity. Phosphorylation on Ser-136 or Ser-112 promotes heterodimerization with 14-3-3 proteins. This interaction then facilitates the phosphorylation at Ser-155, a site within the BH3 motif, leading to the release of Bcl-xL and the promotion of cell survival. Ser-26 is phosphorylated by IKK leading to phosphorylation of C-terminal serine sites and disruption of binding to Bcl-xL. This inactivation of Bad inhibits TNFalpha-induced apoptosis independent of NF-kappaB activity.
Product References and Citations for anti-Bad antibody	Danial, N.N. (2008) Oncogene. 27(Suppl.): S53.Yan, J. et al. (2013) Cell. 152:304.
Other Notes	Small volumes of anti-Bad antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Bad purchase	MBS474087 is an antibody targeting Bad. Also known as Bad (Ser-26), Phospho-Specific. Reactive in Rat, Mouse. Host: Rabbit.



Western Blot (WB) of anti-Bad antibody
Western blot analysis of mouse J774A.1 macrophage stimulated with calyculin A (lanes 1-4) then dephosphorylated with lambda phosphatase (lanes 2 & 4). The blots were probed with mouse monoclonal anti-Bad (lanes 1 & 2), and rabbit polyclonal anti-Bad (Ser-26) (lanes 3 & 4).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Bad. It may not necessarily be applicable to this product.

NCBI GI #	6671610
NCBI GeneID	12015
NCBI Accession #	NP_031548.1
UniProt Primary Accession #	Q61337
UniProt Related Accession #	Q61337
GenBank Nucleotide #	NM_007522.3
NCBI Official Full Name	bcl2-associated agonist of cell death isoform 1
NCBI Official Synonym Full Names	BCL2-associated agonist of cell death
NCBI Official Symbol	Bad
NCBI Official Synonym Symbols	Bbc2; AI325008
UniProt Protein Name	Bcl2 antagonist of cell death
UniProt Synonym Protein Names	Bcl-2-binding component 6; Bcl-xL/Bcl-2-associated death promoter
Protein Family	Bcl2-associated agonist of cell death
UniProt Gene Name	Bad
UniProt Synonym Gene Names	Bbc6; BAD
UniProt Entry Name	BAD_MOUSE
NCBI Protein Information	bcl2-associated agonist of cell death

UniProt Comments for Bad	BAD: a proapoptotic member of the Bcl-2 family. Displaces Bax from binding to Bcl-2 and Bcl-xL, resulting in cell death. Survival factors such as IL-3 can inhibit the apoptotic activity of Bad inducing the phosphorylation of Bad by Akt and p90RSK. 14-3-3 proteins bind phosphorylated Bad, inhibiting its binding to Bcl-2 and Bcl-xL. Phosphorylation by mitochondria-anchored PKA in the BH3 domain can block the dimerization of Bad and Bcl-xL. Protein type: Apoptosis Cellular Component: mitochondrial outer membrane; membrane; mitochondrion; cytoplasm; intracellular; cytosol Molecular Function: protein kinase B binding; protein binding; protein heterodimerization activity; phospholipid binding; caspase activator activity; protein phosphatase binding; lipid binding; protein kinase binding; protein phosphatase 2B binding Biological Process: apoptosis; positive regulation of proteolysis; positive regulation of apoptosis; positive regulation of caspase activity; regulation of caspase activity; cellular process regulating host cell cycle in response to virus; glucose homeostasis; positive regulation of apoptosis by virus; regulation of apoptosis; pore complex biogenesis; positive regulation of glucokinase activity; caspase activation; release of cytochrome c from mitochondria; cytokine and chemokine mediated signaling pathway; suppression by virus of host apoptosis; ADP metabolic process; positive regulation of insulin secretion; ATP metabolic process; cell proliferation; glucose catabolic process; induction of apoptosis via death domain receptors; DNA damage response, signal transduction resulting in induction of apoptosis; positive regulation of T cell differentiation; positive regulation of B cell differentiation; regulation of mitochondrial membrane permeability; positive regulation of epithelial cell proliferation
Research Articles on Bad	**1.** This study shows for the first time that genetic knockout of Bad provides epileptic seizure protection in Kcna1-/- mice, a genetic model of epilepsy with sudden unexplained death.
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