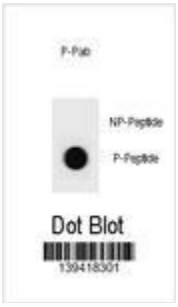
BAD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BAD, Polyclonal Antibody
Full Product Name	BAD, Phosphorylated (T94) (Bad, Bbc6, Bcl2 antagonist of cell death, Bcl-2-binding component 6, Bcl-xL/Bcl-2-associated death promoter) (APC)
Product Gene Name	anti-BAD antibody
Product Synonym Names	Bad; Bbc6; Bcl2 antagonist of cell death; Bcl-2-binding component 6; Bcl-xL/Bcl-2-associated death promoter
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	22,080 Da
Chromosome Location	Chromosome: 19; NC_000085.6 (6941855..6951893). Location: 19 A; 19
3D Structure	ModBase 3D Structure for Q61337
Immunogen	Mouse BAD Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T94 of mouse BAD.
Conjugate	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-BAD antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-BAD antibody	FLISA, Dot Blot (DB)
Application Notes for anti-BAD antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BAD antibody	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. Appears to act as a link between growth factor receptor signaling and the apoptotic pathways.
Product References and Citations for anti-BAD antibody	Santidrian, A.F., et al. Blood 116(16):3023-3032(2010). Frenzel, A., et al. Blood 115(5):995-1005(2010). Quoyer, J., et al. J. Biol. Chem. 285(3):1989-2002(2010). Polzien, L., et al. J. Biol. Chem. 284(41):28004-28020(2009). Wu, X., et al. Diabetologia 52(10):2130-2141(2009).

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	MBS6277483 is an antibody targeting BAD. Also known as BAD, Phosphorylated (T94) (Bad, Bbc6, Bcl2 antagonist of cell death, Bcl-2-binding component 6, Bcl-xL/Bcl-2-associated death promoter) (APC). Reactive in Mouse. Host: Rabbit.



Dot Blot (DB) of anti-BAD antibody
Dot blot analysis of mouse BAD Antibody (Phospho T94) Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

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_007522.2
NCBI Official Full Name	bcl2 antagonist of cell death
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 antagonist of cell death; bcl-2-binding component 6; Bcl-associated death promoter; bcl-xL/Bcl-2-associated death promoter

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.** our study suggests that Bad and Bmf co-regulate lymphocyte homeostasis and limit spontaneous transformation by mechanisms that may not exclusively be linked to the induction of lymphocyte apoptosis.
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