OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP55717PU-S Polyclonal Antibody to Bcl-2-like 8 pSer91/128 - Aff - Purified

Alternate names: BAD, BBC6, BCL2L8, Bcl-2-binding component 6, Bcl-2-like protein 8, Bcl-XL/Bcl-2-associated death promoter, Bcl2 antagonist of cell death, Bcl2-L-8

Quantity: 50 µg

Concentration: 1.0 mg/ml

Background: The protein encoded by BAD gene is a member of the BCL-2 family. BCL-2 family members are known to be regulators of 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 and MAP kinase, as well as protein phosphatase calcineurin were found to be involved in the regulation of this protein. Alternative splicing of this gene results in two transcript variants which encode the same isoform.

Uniprot ID: Q92934

NCBI: NP_004313.1

GeneID: 572

Host: Rabbit

Immunogen: Peptide sequence around phosphorylation site of Serine 91 (E-P-S(p)-P-F) derived from Human BAD or Serine 128 (E-P-S(p)-P-F) derived from Mouse BAD (KLH-conjugated)

Format:
State: Liquid Ig fraction
Purification: Affinity chromatography using epitope-specific peptide
Buffer System: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Applications:
Western blot: 1:500~1:1000.
Immunohistochemistry on paraffin sections: 1:50~1:100.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 22 kDa

Specificity: The antibody detects endogenous levels of BAD only when phosphorylated at serine 91/ serine 128.

Species Reactivity:
Tested: Human, Mouse, Rat

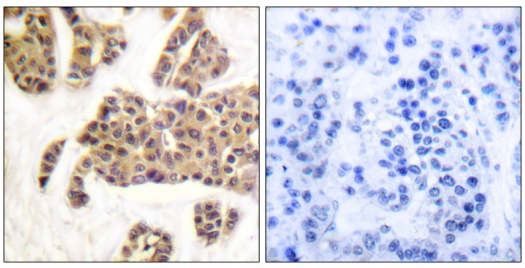
Storage:
Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Wang HG, Rapp UR, Reed JC. Bcl-2 targets the protein kinase Raf-1 to mitochondria. Cell. 1996 Nov 15;87(4):629-38. PubMed PMID: 8929532.
2. Ottilie S, Diaz JL, Horne W, Chang J, Wang Y, Wilson G, et al. Dimerization properties of human BAD. Identification of a BH-3 domain and analysis of its binding to mutant

BCL-2 and BCL-XL proteins. J Biol Chem. 1997 Dec 5;272(49):30866-72. PubMed PMID: 9388232.
3. Gerhard DS, Wagner L, Feingold EA, Shenmen CM, Grouse LH, Schuler G, et al. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 2004 Oct;14(10B):2121-7. PubMed PMID: 15489334.

Pictures:

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using BAD (Phospho-Ser91/128) antibody AP55717PU-N (left)or the same antibody preincubated with blocking peptide (right).



Western blot analysis of extracts from COS7 cells treated with TNF-a using BAD (Phospho-Ser91/128) Antibody AP55717PU-N.The lane on the right is treated with the antigen-specific peptide.