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

AP02366PU-N Polyclonal Antibody to Bcl-2-like 8 pSer112/75 - 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: 0.1 mg

Concentration: 1.0 mg/ml

Background: Bad is a member of the Bcl2 family and acts to promote apoptosis by forming heterodimers with the survival proteins Bcl2 and BclxL, thus preventing them from binding with BAX. Bad is found on the outer mitochondrial membrane and, once phosphorylated in response to growth stimuli, translocates to the cytoplasm. The phosphorylation status of Bad represents a key checkpoint for death or cell survival. JNK-induced phosphorylation of BAD serine 128 promotes the apoptotic role of Bad by opposing the inhibitory effect of growth factor on Bad-mediated apoptosis. Cdc2-induced phosphorylation of Bad serine 128 has an inhibitory effect on its interaction with 14-3-3 proteins. The latter interaction is critical for Bad phosphorylation at serine 155, a site within the BH3 domain that leads to the release of BclxL and the promotion of cell survival. 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: The antiserum was produced against synthesized phosphopeptide derived from human BAD around the phosphorylation site of serine 112 (H-S-SP-Y-P).

Format:
State: Liquid purified Ig fraction.
Purification: Immunoaffinity chromatography.
Buffer System: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.

Applications: Suitable for use in Western blot (1:500~1:1000) and Immunohistochemistry (1:50~1:100).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
BAD (phospho-Ser112) antibody detects endogenous levels of BAD only when phosphorylated at serine 112.
Species: Human, Rat and Mouse.
Other species not tested.

Storage:

Store the antibody (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

General Readings:

1. Zhang B, et al. (2004). Mol Cell Biol.24 (14): 6205-6214.
2. Rice PL, et al. (2003). Cancer Res.63 (3): 616-620.
3. Wang XQ, et al. (2001). J Biol Chem.276 (48): 44504-44511.

Pictures:

Figure 2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using BAD (phospho-Ser112) antibody AP02366PU.

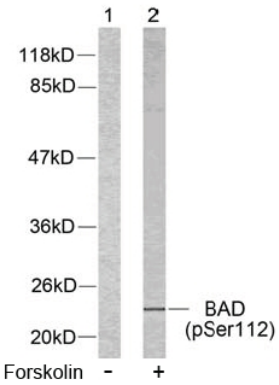

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using BAD (phospho-Ser112) antibody AP02366PU.