

## Bad (phospho-S136) polyclonal antibody

Catalog: BS4021

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Bad is a proapoptotic member of the Bcl-2 family that promotes cell death by displacing Bax from binding to Bcl-2 and Bcl-xL. Survival factors, such as IL-3, inhibit the apoptotic activity of Bad by activating intracellular signaling pathways that result in the phosphorylation of Bad at Ser112 and Ser136. Phosphorylation at these sites promotes binding of Bad to 14-3-3 proteins to prevent an association between Bad with Bcl-2 and Bcl-xL. Akt phosphorylates Bad at Ser136 to promote cell survival. Bad is phosphorylated at Ser112 both in vivo and in vitro by p90RSK and mitochondria-anchored PKA. Phosphorylation at Ser155 in the BH3 domain by PKA plays a critical role in blocking the dimerization of Bad and Bcl-xL.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 24 kDa

### Swiss-Prot:

Q92934

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

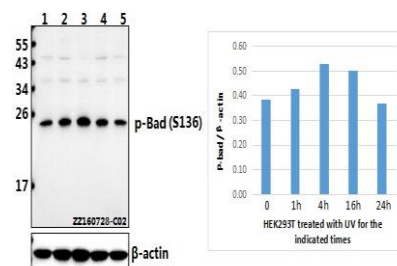
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-Bad (S136) polyclonal antibody detects endogenous levels of Bad protein only when phosphorylated at Ser136

### DATA:



Western blot (WB) analysis of Bad (phospho-S136) polyclonal antibody at 1:500 dilution

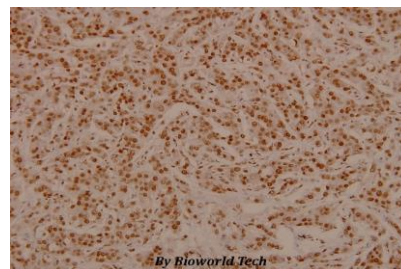
Lane1:HEK293T whole cell lysate(40ug)

Lane2:HEK293T treated with UV for 1h whole cell lysate(40ug)

Lane3:HEK293T treated with UV for 4h whole cell lysate(40ug)

Lane4:HEK293T treated with UV for 16h whole cell lysate(40ug)

Lane5:HEK293T treated with UV for 24h whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-Bad (S136) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

For research use only, not for use in diagnostic procedure.

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