**BACKGROUND**

Phosphorylation of Bad, a pro-apoptotic member of the Bcl-2 protein family, on either serine 112 or serine 136 is thought to be necessary and sufficient for growth factors to promote cell survival. Serine 155 is a major site of phosphorylation by protein kinase A (PKA) and serum-induced kinases. Serine 155 phosphorylation requires the prior phosphorylation of serine 136, which recruits 14-3-3 proteins that then function to increase the accessibility of serine 155 to survival-promoting kinases. Like serine 112 and serine 136, phosphorylation of serine 155 inhibits the pro-apoptotic function of Bad. Serine 155 phosphorylation disrupts the binding of Bad to prosurvival Bcl-2 proteins and thereby promotes cell survival.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: BAD (human) mapping to 11q13.1; Bad (mouse) mapping to 19 A.

**SOURCE**

p-Bad (F-6) is a mouse monoclonal antibody specific for an epitope corresponding to a short amino acid sequence containing Ser 136 phosphorylated Bad of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

p-Bad (F-6) is available conjugated to agarse (sc-271963 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271963 HRP), 200 µg/ml, for WB, HCP(PE and ELISA; to either Alexa Fluor® 680 (sc-271963 AF680), Alexa Fluor® 546 (sc-271963 AF546), Alexa Fluor® 594 (sc-271963 AF594) or Alexa Fluor® 647 (sc-271963 AF647), 200 µg/ml, for WB (RGB), IF, HCP(PE and FCM; and to either Alexa Fluor® 680 (sc-271963 AF680) or Alexa Fluor® 790 (sc-271963 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Blocking peptide available for competition studies, sc-271963 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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**APPLICATIONS**

p-Bad (F-6) is recommended for detection of Ser 136 phosphorylated Bad of mouse, rat and human origin by Western blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Bad siRNA (h): sc-29778, Bad siRNA (m): sc-29779, Bad shRNA Plasmid (h): sc-29778-SH, Bad shRNA Plasmid (m): sc-29779-SH, Bad shRNA (h) Lentiviral Particles: sc-29778-V and Bad shRNA (m) Lentiviral Particles: sc-29779-V.

Molecular Weight (predicted) of p-Bad: 22 kDa.

Molecular Weight (observed) of p-Bad: 23/28 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ-BP-HRP: sc-516102 or m-IgG κ-BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000).

2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml), Lambda Phosphatase: sc-200312A and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).


**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.