abcam

Product datasheet

Anti-Bad (phospho S155) antibody ab28825

★★★☆☆ 1 Abreviews   2 References   2 Images

Overview

Product name	Anti-Bad (phospho S155) antibody
Description	Rabbit polyclonal to Bad (phospho S155)
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ELISA
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic phosphopeptide derived from human Bad around the phosphorylation site of Serine 155.
Positive control	Extracts from 293 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride Without Mg2+ and Ca2+
Purity	Immunogen affinity purified
Purification notes	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.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab28825** in the following tested applications.
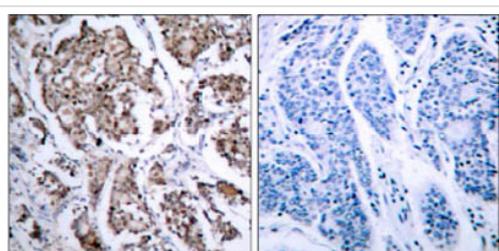
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

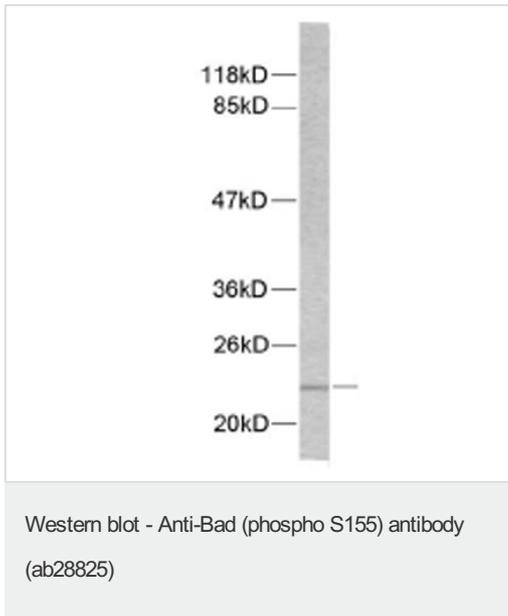| Application	Abreviews	Notes
WB	★★★☆☆	1/500 - 1/1000. Detects a band of approximately 23 kDa (predicted molecular weight: 18 kDa).
IHC-P		Use at an assay dependent concentration.
ELISA		1/10000.

Target

Function	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 (By similarity). Appears to act as a link between growth factor receptor signaling and the apoptotic pathways.
Tissue specificity	Expressed in a wide variety of tissues.
Sequence similarities	Belongs to the Bcl-2 family.
Domain	Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.
Post-translational modifications	Phosphorylated on one or more of Ser-75, Ser-99, Ser-118 and Ser-134 in response to survival stimuli, which blocks its pro-apoptotic activity. Phosphorylation on Ser-99 or Ser-75 promotes heterodimerization with 14-3-3 proteins. This interaction then facilitates the phosphorylation at Ser-118, a site within the BH3 motif, leading to the release of Bcl-X(L) and the promotion of cell survival. Ser-99 is the major site of AKT/PKB phosphorylation, Ser-118 the major site of protein kinase A (CAPK) phosphorylation. Ser-75 is phosphorylated by AKT/PKB, protein kinase A and PIM2.
Cellular localization	Mitochondrion outer membrane. Cytoplasm. Upon phosphorylation, locates to the cytoplasm.

Images

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bad (phospho S155) antibody (ab28825)

Ab28825, at a concentration of 1/50, staining Bad in paraffin embedded human breast carcinoma tissue by Immunohistochemistry.

Left image: untreated.

Right image: treated with synthesized phosphopeptide.

Anti-Bad (phospho S155) antibody (ab28825) at 1/500 dilution + extracts from 293 cells (5-30ug) treated with forsklin

Predicted band size: 18 kDa
Observed band size: 23 kDa
why is the actual band size different from the predicted?

Western blot - Anti-Bad (phospho S155) antibody (ab28825)

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