Human/Mouse Bad aa 1-21 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF819

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Bad in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	KLH-coupled human Bad synthetic peptide MFQIPEFEPSEQEDSSSAERGC Accession # Q92934
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

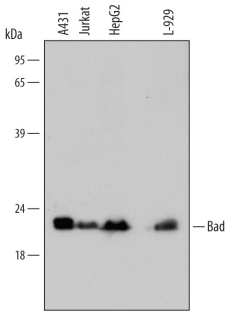
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	0.3-15 µg/mL	See Below

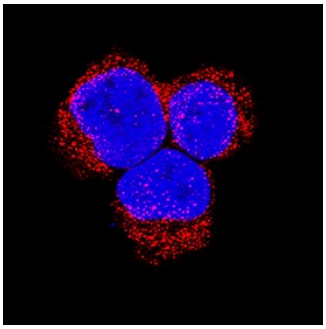
DATA

Western Blot



Detection of Human/Mouse Bad by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, HepG2 human hepatocellular carcinoma cell line, and L-929 mouse fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human/Mouse Bad Antigen Affinity-purified Polyclonal Antibody (Catalog # AF819) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Bad at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Immunocytochemistry



Bad in Jurkat Human Cell Line. Bad was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Rabbit Anti-Human/Mouse Bad Antigen Affinity-purified Polyclonal Antibody (Catalog # AF819) at 0.3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Bcl-2 antagonist of cell death (BAD) is an 18 kDa cytoplasmic protein in the Bcl-2 family. It functions as a pro-apoptotic molecule by dimerizing with and inhibiting the anti-apoptotic proteins Bcl-2 and Bcl-xL. Prosurvival signals trigger the phosphorylation of BAD on Ser115, disrupting its interaction with Bcl-2 and Bcl-xL and resulting in protection from apoptosis. Over amino acid 1-21, human BAD shares 81 % aa sequence identity with mouse and rat BAD.

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