

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Bad when phosphorylated at S99 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 679431
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human Bad S99 site 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.

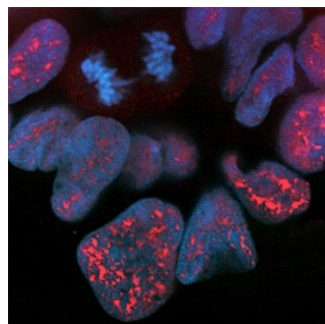
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



Phospho-Bad (S99) in HEK293 Human Cell Line. Bcl-xL/Bcl-2 Associated Death Promoter phosphorylated at S99 (Phospho-Bad (S99)) was detected in immersion fixed HEK293 human embryonic kidney cell line using Mouse Anti-Human Phospho-Bad (S99) Monoclonal Antibody (Catalog # MAB7764) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. Note that labeling is absent in dividing cells. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> 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 Ser75, Ser99, and Ser115, disrupting its interaction with Bcl-2 and Bcl-xL and resulting in protection from apoptosis. Phosphorylation of Ser75 and Ser99 is also required for the ability of Bad to induce cell cycle arrest in G1. Human Bad shares 75 % aa sequence identity with mouse and rat Bad.