

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Bad when phosphorylated at S99 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 679431
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Phosphopeptide containing the human Bad S99 site Accession # Q92934
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

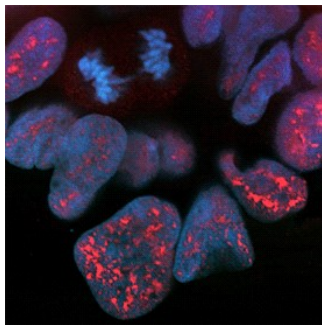
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunocytochemistry</b>	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

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.