

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects endogenous mouse Bad in Western blots. In Western blots, this antibody does not cross-react with human Bad. The antibody also detects a 32 kDa band in Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 64103
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Bad
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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