

Bad Monoclonal Antibody

CATALOG #:	3005-100
LOT #:	_____
HOST:	Mouse
ISOTYPE:	IgG ₁
MOL. WEIGHT:	23 kDa
IMMUNOGEN:	Full length human Bad
SPECIES REACTIVITY:	Human, Mouse, Rat

ANTIBODY FORMULATION:

100 µg (200 µg/ml) in PBS containing 1 mg/ml BSA and 1.5 mM sodium azide and 50% glycerol.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

Bad is a member of the Bcl-2 family proteins. Within the Bcl-2 homology domains 1 and 2 (BH1 and BH2), Bad shows significant homology to Bcl-2 and Bcl-x. Bcl-2 is known to block several apoptosis signals and is considered to be a central downstream cell death repressor. Bcl-x_L represses apoptosis, but its short form, Bcl-x_S, promotes cell death. Bax is known to homodimerize as well as heterodimerize with Bcl-2. An excess concentration of Bax opposes the ability of Bcl-2 to repress cell death. Bad can selectively dimerize with Bcl-x_L and Bcl-2, but not with Bax, Bcl-x_S, Mcl-1, A1, or itself. In mammalian cells, Bad binds more strongly to Bcl-x_L than Bcl-2, which may explain why Bad reverse the death repressor activity of Bcl-x_L, but not that of Bcl-2. The formation of the Bad-Bcl-x_L heterodimer displaces Bax and restores favorable conditions for apoptosis.

APPLICATIONS:

Western blot analysis (1-4 µg/ml), immunoprecipitation (5-10 µg/ml), and immunohistochemistry (frozen and paraffin sections, 10-20 µg/ml). However, the optimal conditions should be determined individually. HeLa cell lysate can be used as a positive control.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies