

MAPKAPK-2 Polyclonal Antibody

CATALOG #:	3100-100
AMOUNT:	100 µg
LOT #:	_____
IMMUNOGEN:	Synthetic peptide surrounding amino acid 365 of mouse MAPKAPK-2 (Internal ID# BV-A8)
SPECIES REACTIVITY:	human, mouse, rats, dog, bovine, hamster

FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit anti-MAPKAPK-2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

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

BACKGROUND DESCRIPTION:

MAP kinase-activated protein kinase-2 (MAPKAPK-2), also known as p45 hsp27 kinase, is a 45-54 kDa serine-threonine protein kinase that contains a proline rich sequence and two putative SH3-binding sites. MAPKAPK-2 is activated in response to stress, IL-1 and TNF, possibly catalyzed by p38/Hog-dependent phosphorylation. One of the major substrates of MAPKAPK-2 is hsp27, which stimulates actin polymerization in order to facilitate recovery from destruction of cytoskeleton during cellular stresses. Two isoforms are produced due to alternative splicing of the same gene which differs in their C-terminals. This antibody recognizes both isoforms.

SPECIFICITY:

The affinity purified antibody detects both 43 and 60 kDa isoforms, corresponding to the apparent molecular mass of MAPKAPK-2 on SDS-PAGE immunoblots. These 43 kDa and 60 kDa bands can be specifically inhibited by the relevant peptide.

APPLICATION AND USAGE:

The antibody performs well on Western blot analysis (0.5-4 µg/ml) and immunoprecipitation. However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3100BP-50) is available separately.

NOTE: For Research Use Only! Not to be used in 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

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- 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