

## Caspase-7 Antibody (Clone B4-G2)

<b>CATALOG #:</b>	3010-100
<b>LOT #:</b>	_____
<b>HOST:</b>	Mouse
<b>ISOTYPE:</b>	IgG <sub>1</sub>
<b>CLONE:</b>	B4-G2
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat

### ANTIBODY FORMULATION:

100 µg (0.5 mg/ml) in PBS containing 1 mg/ml BSA and 1.5 mM thimerosal and 50% glycerol.

### STORAGE CONDITIONS:

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

### DESCRIPTION:

The caspase family of cysteine proteases plays a key role in apoptosis. Caspase-7, also known as Mch3α, ICE/LAP3 and CMH1, is a 34 kDa protein that is activated during Fas- and TNF-induced apoptosis. Caspase-7 has been identified as a major contributor to the execution phase of cellular apoptosis. It cleaves essential cellular machinery following its own cleavage from an inactive proenzyme to an active heterodimeric form. Caspase-7 is processed by caspase-3, -6, -8, -9, and -10 as well as by Granzyme B.

### APPLICATIONS AND USAGE:

Western blot analysis (0.5-2 µg/ml) and immunoprecipitation (4-10 µg/ml). However the optimal conditions should be determined individually.

### SPECIFICITY:

Detects both pro-caspase-7 (34 kDa) and the large subunit of cleaved caspase-7 (19 kDa) in apoptosis cells on SDS-PAGE immunoblots.

**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