

# Caspase-3 Monoclonal Antibody

<b>CATALOG #:</b>	3004-100
<b>LOT #:</b>	_____
<b>HOST:</b>	Mouse
<b>ISOTYPE:</b>	IgG <sub>1</sub>
<b>CLONE:</b>	C33
<b>IMMUNOGEN:</b>	Recombinant human Caspase-3
<b>SPECIES REACTIVITY:</b>	Human, mouse, rat
<b>FORMULATION:</b>	100 µg (200 µg/ml) in PBS containing 50% glycerol, 0.5 mg/ml BSA and 0.01% thimerosal.
<b>STORAGE:</b>	Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

## DESCRIPTION:

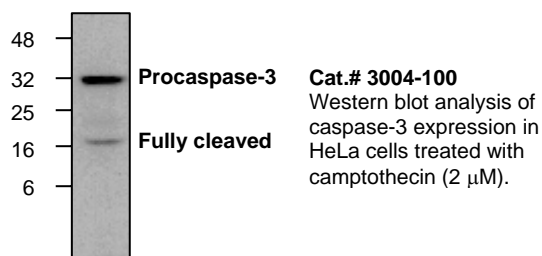
The caspase family of cysteine proteases play a key role in apoptosis. Caspase-3 is the most extensively studied apoptotic protein among caspase family members. Caspase-3 is synthesized as inactive pro-enzyme that is processed in cells undergoing apoptosis by self-proteolysis and/or cleavage by another upstream protease. The processed form of caspase-3 consists of large (17 kD) and small (12 kD) subunits which associate to form an active enzyme. The active caspase-3 proteolytically cleaves and activates other caspases, as well as relevant targets in the cells (e.g., PARP and DFF).

## SPECIFICITY:

The antibody recognizes both proform and the cleaved large fragment of caspase-3 in samples of human, mouse and rat origins.

## APPLICATIONS AND USAGE:

Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually.



## 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