

# Caspase-1 Polyclonal Antibody

<b>CATALOG #:</b>	3019-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 132 of human caspase-1 (ID# BV-27)

## FORMULATION:

100 µg (0.2 mg/ml) immunoaffinity purified rabbit anti-caspase-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

**SPECIES REACTIVITY:** human, mouse, rat

## STORAGE CONDITIONS:

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

## BACKGROUND:

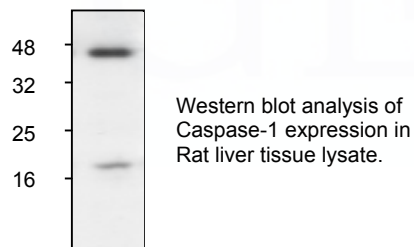
Caspase family of cysteine proteases has been shown to play a key role in apoptosis. Caspase-1 (ICE, interleukin-1 $\beta$ -converting enzyme) is the mammalian caspase responsible for the proteolytic conversion of the proforms of interleukin-1 $\beta$  and IL-18 into active cytokines. Like other caspases, Caspase-1 itself is synthesized as a pro-enzyme that is cleaved during activation into a large (20 kDa) and small (10 kDa) subunits. The cellular role of caspase-1 appears limited to cytokine activation as they do not have obvious roles in apoptosis.

## SPECIFICITY:

The immunoaffinity purified antibody recognizes 45 kDa procaspase-1 and the 20 kDa cleaved product.

## APPLICATION AND USAGE:

The antibody can be used for Western blot analysis (1-4 µg/ml), immunoprecipitation (4-8 µg/ml) and immunofluorescence (10-20 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
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

### Growth Factors and Cytokines

### Monoclonal and Polyclonal Antibodies