

## Caspase-1 Polyclonal Antibody

**CATALOG NO:** 3019-30T 30 µg (Trial size)  
3019-100 100 µg

**CONCENTRATION:** 0.5 mg/ml

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide surrounding amino acid 132 of human caspase-1

**INTERNAL ID:** BV-27

**SPECIES REACTIVITY:** Human, Mouse, Rat

**FORMULATION:**

Affinity purified rabbit anti-caspase-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.5 mM EDTA, 0.03% ProClin®

**STORAGE CONDITIONS:**

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

**BACKGROUND:**

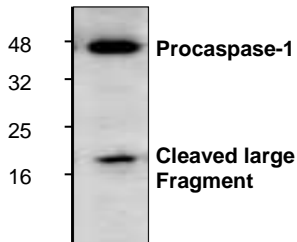
Caspase family of cysteine proteases has been shown to play a key role in apoptosis. Caspase-1 (ICE, interleukin-1β-converting enzyme) is the mammalian caspase responsible for the proteolytic conversion of the proforms of interleukin-1β and IL-18 into active cytokines. Like other caspases, Caspase-1 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 immunopurified antibody recognizes 45 kDa procaspase-1 and the 20 kDa cleaved product.

**APPLICATION AND USAGE:**

The antibody can be used for Western blot analysis (0.5-4 µg/ml), immunoprecipitation (4-8 µg/ml) and immunofluorescence (10-20 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3019BP-50) is available separately.



Western blot analysis of Caspase-1 expression in Rat liver tissue lysate.

**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

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