

# Caspase-4 Polyclonal Antibody

|                            |   |
|----------------------------|---|
| <b>CATALOG #:</b>          | 3028-100  |
| <b>AMOUNT:</b>             | 100 µg  |
| <b>LOT #:</b>              | _____   |
| <b>HOST:</b>               | Rabbit  |
| <b>IMMUNOGEN:</b>          | Synthetic peptide surrounding amino acid 100 of human caspase-4 (ID# BV-384). |
| <b>SPECIES REACTIVITY:</b> | human, mouse, rat   |

## FORMULATION:

100 µg (0.2 mg/ml) affinity purified rabbit 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 optimal storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

## BACKGROUND:

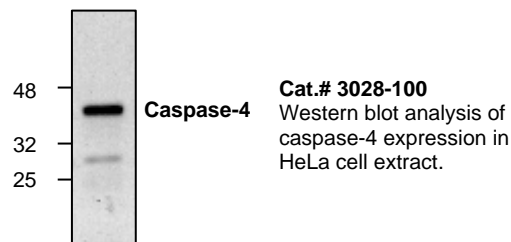
Apoptosis occurs during normal cellular development and involves dramatic changes in cellular structure. Disruption of apoptosis may contribute to cancer as well as other autoimmune diseases. Caspase family of cysteine proteases has been shown to play a key role in apoptosis. Caspase-4 is also known as Ich-2, TX, and ICE<sub>rel-II</sub> and can proteolytically processed by granzyme B. Over expression of caspase-4 induces apoptosis in Rat-1 and HeLa cells, which can be inhibited by CrmA and Bcl-2.

## SPECIFICITY:

The affinity purified antibody detects the 43 kDa proform of caspase-4.

## APPLICATION AND USAGE:

Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Mouse small intestine tissue lysate can be used as a positive control.



## 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