

## CASP1 Polyclonal Antibody

catalog number: E-AB-70300

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

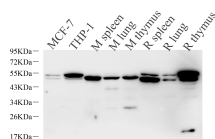
<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant protein corresponding to Mouse Caspase1
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 1% protein protectant and 50% glycerol.

### Applications

### Recommended Dilution

<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:300-1:800

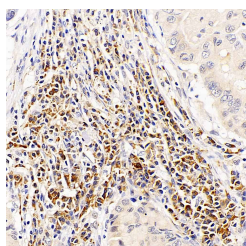
### Data



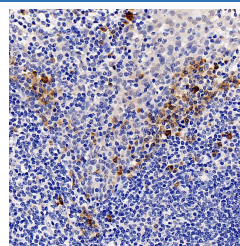
Western Blot analysis of various samples using CASP1 Polyclonal Antibody at dilution of 1:1000.

**Observed-MW:45-47 kDa,30 kDa,35 kDa**

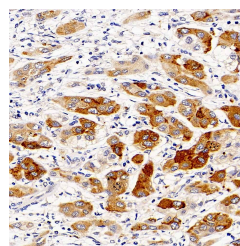
**Calculated-MW:45 kDa**



Immunohistochemistry analysis of paraffin-embedded human lung cancer using CASP1 Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry analysis of paraffin-embedded human tonsil using CASP1 Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry analysis of paraffin-embedded human liver cancer using CASP1 Polyclonal Antibody at dilution of 1:300.

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

### Background

### For Research Use Only

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms.