

## Caspase-1 Rabbit pAb

CatalogNo: YT5743

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IF, WB, IHC, ELISA

#### MW

- 45kD (Calculated)  
45kD, 35kD, cleaved isform p10  
:10kD (Observed)

#### Isotype

- IgG

### | Recommended Dilution Ratios

**IF 1:50-200**

**WB 1:500-2000**

**IHC 1:50-300**

**ELISA 1:10000-20000**

### | Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

**Clonality** Polyclonal

### | Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from the C-terminal region of human CASP1. AA range: 350-400

**Specificity** Caspase-1 Polyclonal Antibody detects endogenous levels of Caspase-1

## Target Information

**Gene name** CASP1 IL1BC IL1BCE

**Protein Name** Caspase-1

Organism	Gene ID	UniProt ID
Human	<a href="#">834;</a>	<a href="#">P29466;</a>
Mouse	<a href="#">12362;</a>	<a href="#">P29452;</a>
Rat		<a href="#">P43527;</a>

**Cellular Localization** Cytoplasm . Cell membrane .

**Tissue specificity** Expressed in larger amounts in spleen and lung. Detected in liver, heart, small intestine, colon, thymus, prostate, skeletal muscle, peripheral blood leukocytes, kidney and testis. No expression in the brain.

**Function** Alternative products:Additional isoforms seem to exist,Catalytic activity:Strict requirement for an Asp residue at position P1 and has a preferred cleavage sequence of Tyr-Val-Ala-Asp-|-.,enzyme regulation:Specifically inhibited by the cowpox virus Crma protein.,Function:Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis.,PTM:The two subunits are derived from the precursor sequence by an autocatalytic mechanism.,similarity:Belongs to the peptidase C14A family.,similarity:Contains 1 CARD domain.,subunit:Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 20 kDa (p20) and a 10 kDa (p10) subunit. The p20 subunit can also form a heterodimer with the epsilon isoform which then has an inhibitory effect. May be a component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and NALP2 and whose function would be the activation of proinflammatory caspases. Interacts with CARD17/INCA and CARD18.,tissue specificity:Expressed in larger amounts in spleen and lung. Detected in liver, heart, small intestine, colon, thymus, prostate, skeletal muscle, peripheral blood leukocytes, kidney and testis. No expression in the brain.,

## Validation Data

## Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**Caspase-1 Rabbit pAb**

