

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	834;	P29466;
Mouse	12362;	P29452;
Rat		P43527;

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

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