

Datasheet for ABIN7266110  
**anti-Caspase 1 antibody**

3 Images



[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	Caspase 1 (CASP1)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Purpose:	CASP1 Rabbit pAb
Immunogen:	Recombinant protein of Mouse CASP1.
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	CASP1 ( <a href="#">CASP1 Products</a> )
Background:	Thiol protease involved in a variety of inflammatory processes by proteolytically cleaving other

## Target Details

proteins, such as the precursors of the inflammatory cytokines interleukin-1 beta (IL1B and interleukin 18 (IL18 as well as the pyroptosis inducer Gasdermin-D (GSDMD, into active mature peptides. Plays a key role in cell immunity as an inflammatory response initiator: once activated through formation of an inflammasome complex, it initiates a proinflammatory response through the cleavage of the two inflammatory cytokines IL1B and IL18, releasing the mature cytokines which are involved in a variety of inflammatory processes. Cleaves a tetrapeptide after an Asp residue at position P1. Also initiates pyroptosis, a programmed lytic cell death pathway, through cleavage of GSDMD. In contrast to cleavage of interleukins IL1B and IL1B, recognition and cleavage of GSDMD is not strictly dependent on the consensus cleavage site but depends on an exosite interface on CASP1 that recognizes and binds the Gasdermin-D, C-terminal (GSDMD-CT part. Upon inflammasome activation, during DNA virus infection but not RNA virus challenge, controls antiviral immunity through the cleavage of CGAS, rendering it inactive. In apoptotic cells, cleaves SPHK2 which is released from cells and remains enzymatically active extracellularly (By similarity.,IC, ICE, I11, Casp, I11bc,CASP1

Molecular Weight: 45kDa

Gene ID: 12362

UniProt: [P29452](#)

Pathways: [Apoptosis](#), [Interferon-gamma Pathway](#), [Positive Regulation of Endopeptidase Activity](#), [Inflammasome](#)

## Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

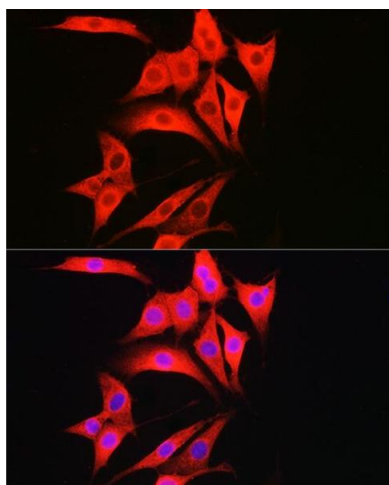
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

## Handling

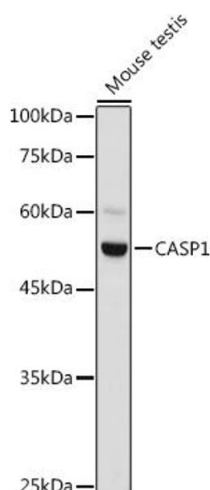
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



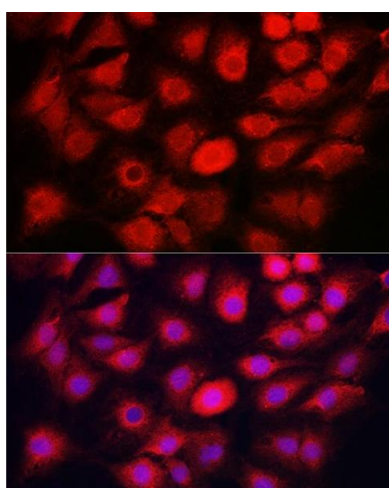
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of NIH/3T3 cells using C Rabbit pAb (ABIN7266110) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of Mouse testis, using C antibody (ABIN7266110) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of C6 cells using C Rabbit pAb (ABIN7266110) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.