

Datasheet for ABIN3030288

anti-Caspase 1 antibody (AA 249-262)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Caspase 1 (CASP1)
Binding Specificity:	AA 249-262
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 249-262 (VFIGRLIEHMQEYA) from the large subunit were used as the immunogen for this Caspase-1 antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	Caspase-1 (CASP1 Products)
Background:	Caspase-1, an apoptosis-related cysteine protease, is a cysteine protease that regulates inflammatory processes through its capacity to process and activate the interleukin-1-beta, IL-18, and IL-33 precursor proteins. It was purified from the cytosol of the THP monocytic cell line

Target Details

and found that the active protease was made up of two peptides, which they called p20 and p10 based on their apparent molecular masses by SDS-PAGE. It belongs to a family of cysteine proteases known as caspases that always cleave proteins following an aspartic acid residue. The CASP1 gene is mapped to 11q23, a site frequently involved in rearrangement in human cancers, including a number of leukemias and lymphomas, by Southern DNA blot analysis of rodent-human hybrids and by in situ hybridization to normal metaphase chromosomes. Caspase-1 has been shown to induce cell necrosis or pyroptosis and may function in various developmental stages.

UniProt: [P29466](#)

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

Application Details

Application Notes: The stated application concentrations are suggested starting points. Titration of the Caspase-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

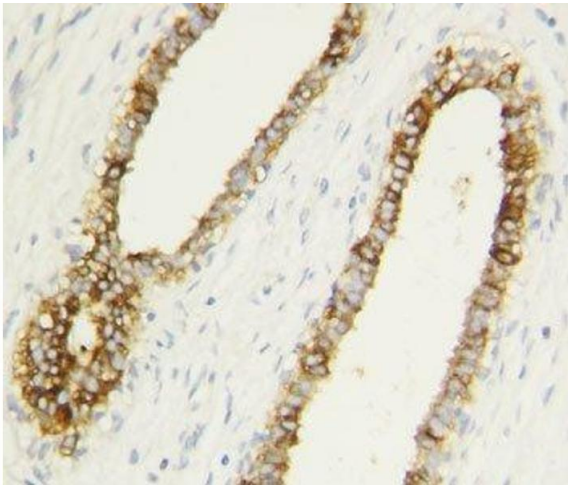
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

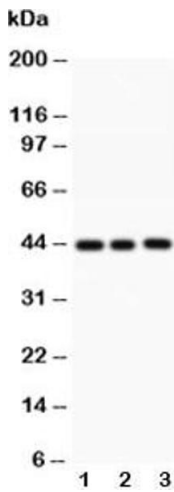
Storage: -20 °C

Storage Comment: After reconstitution, the Caspase-1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Immunohistochemistry

Image 1. Caspase-1 antibody testing of human breast cancer tissue by IHC-P.



Western Blotting

Image 2. Caspase-1 antibody and 1. MCF-7, 2. HeLa, 3. SW620 lysate testing by western blot



Western Blotting

Image 3. Caspase-1 antibody and 1. MCF-7, 2. HeLa, 3. SW620 lysate testing by western blot