

# Rabbit anti-Human, Mouse Cleaved Caspase-1 p20 Polyclonal Antibody | anti-CASP1 antibody

Cleaved Caspase-1 p20 Polyclonal Antibody

|                               |                       |                                   |                                                                 |
|-------------------------------|-----------------------|-----------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA179566</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry</b> |
|-------------------------------|-----------------------|-----------------------------------|-----------------------------------------------------------------|

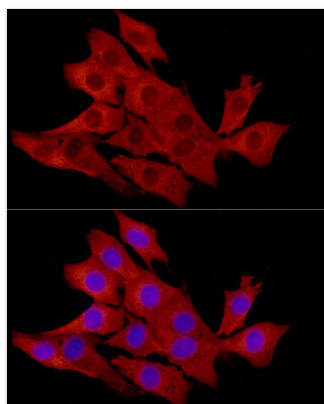
## PRODUCT SYNONYMS

Cleaved Caspase-1 p20; Polyclonal Antibody; Cleaved Caspase-1 p20 Polyclonal Antibody; CASP1; ICE; IL1BC; P45; caspase-1; Caspase 1; anti-CASP1 antibody

## PRODUCT SPECIFICATIONS

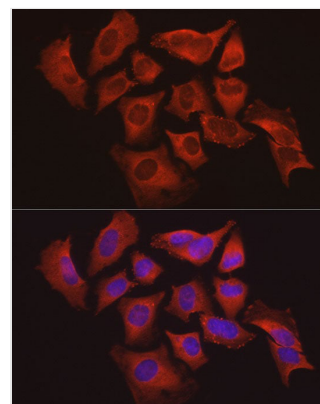
|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| Host                                            | Rabbit                                                    |
| Reactivity                                      | Human, Mouse                                              |
| Clonality                                       | Polyclonal                                                |
| Isotype                                         | IgG                                                       |
| Purity/Purification                             | Affinity purification                                     |
| Form/Format                                     | PBS with 0.05% proclin300,50% glycerol,pH7.3.             |
| Concentration                                   | 1mg/mL (varies by lot)                                    |
| Applicable Applications for anti-CASP1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry)       |
| Immunogen                                       | A synthetic peptide of human Cleaved Caspase-1 p20        |
| Research Area                                   | Cancer, Cell Biology, Metabolism                          |
| Preparation and Storage                         | Storage: -20 degree C/One year. Avoid freeze/thaw cycles. |

## IMAGES



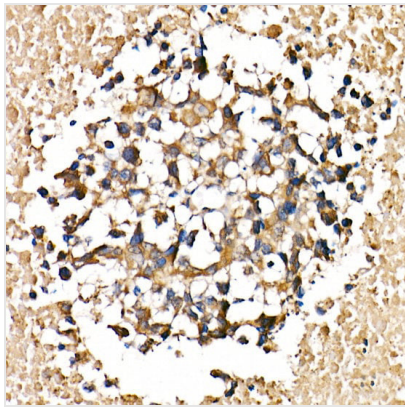
### IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using Cleaved Caspase-1 p20 Polyclonal Antibody at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



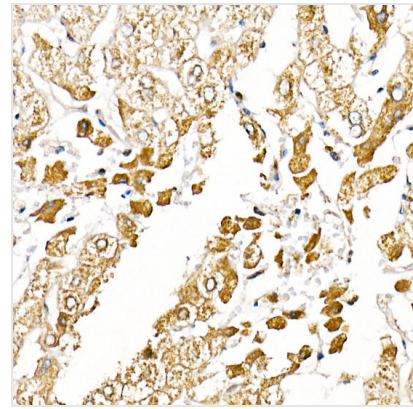
### IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using Cleaved Caspase-1 p20 Polyclonal Antibody at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human lung cancer using Cleaved Caspase-1 p20 Polyclonal Antibody at dilution of 1:20 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver cancer using Cleaved Caspase-1 p20 Polyclonal Antibody at dilution of 1:20 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CASP1 antibody</b> | This gene encodes a protein which is 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. |
| <b>Product Categories/Family for anti-CASP1 antibody</b>   | <a href="#">Antibodies</a> ; <a href="#">Primary Antibodies</a> ; <a href="#">Polyclonal Antibody</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">4502573</a>                                                                                                                                                                                                              |
| <b>NCBI GeneID</b>                      | <a href="#">834</a>                                                                                                                                                                                                                  |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001214.1</a>                                                                                                                                                                                                          |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001223.4</a>                                                                                                                                                                                                          |
| <b>UniProt Accession #</b>              | <a href="#">P29466</a> ; <a href="#">Q53EY6</a> ; <a href="#">Q6DMQ1</a> ; <a href="#">Q6GSS3</a> ; <a href="#">Q6PI75</a> ; <a href="#">Q9UCN3</a> ; <a href="#">B5MDZ1</a>                                                         |
| <b>Molecular Weight</b>                 | 45,159 Da                                                                                                                                                                                                                            |
| <b>NCBI Official Full Name</b>          | caspase-1 isoform beta                                                                                                                                                                                                               |
| <b>NCBI Official Synonym Full Names</b> | caspase 1, apoptosis-related cysteine peptidase                                                                                                                                                                                      |
| <b>NCBI Official Symbol</b>             | CASP1                                                                                                                                                                                                                                |
| <b>NCBI Official Synonym Symbols</b>    | ICE; P45; IL1BC                                                                                                                                                                                                                      |
| <b>NCBI Protein Information</b>         | caspase-1; IL1B-convertase; CASP1 nirs variant 1; IL-1 beta-converting enzyme; interleukin 1, beta, convertase; interleukin 1-B converting enzyme; caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase) |
| <b>UniProt Protein Name</b>             | Caspase-1                                                                                                                                                                                                                            |
| <b>UniProt Gene Name</b>                | <b>CASP1</b>                                                                                                                                                                                                                         |
| <b>UniProt Synonym Gene Names</b>       | IL1BC; IL1BCE; CASP-1; IL-1BC; ICE                                                                                                                                                                                                   |
| <b>UniProt Entry Name</b>               | CASP1_HUMAN                                                                                                                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cleaved-caspase-1-p20-antibody-immunofluorescence-immunohistochemistry-elisa/179566>