

## Rabbit anti-Human Caspase-3(P10) Polyclonal Antibody | anti-CASP3 antibody

Anti-Caspase-3(P10)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                            |
|-----------|--------|------------|---------------------------------------------------------|
| AAA45466  | Rabbit | Human      | Immunocytochemistry, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Caspase-3(P10); Polyclonal Antibody; Anti-Caspase-3(P10); Caspase-3(CASP-3); caspase 3; apoptosis-related cysteine peptidase; A830040C14Rik antibody; Apopain antibody; Apopain precursor antibody; CASP 3 antibody; CASP-3 antibody; CASP3 antibody; Casp3a antibody; Caspase 3 antibody; Caspase 3 apoptosis related cysteine protease antibody; Caspase 3 p12 subunit antibody; Caspase 3; apoptosis-related cysteine peptidase antibody; apoptosis-related cysteine protease antibody; apoptosis-related cysteine protease a antibody; Caspase-3 subunit p12 antibody; Caspase3 antibody; CC3 antibody; CPP 32 antibody; CPP-32 antibody; CPP32 antibody; CPP32B antibody; Cysteine protease CPP32 antibody; EC 3.4.22.56 antibody; Human cysteine protease CPP32 isoform alpha mRNA complete cds antibody; ICE3 antibody; LICE antibody; mldy antibody; OTTHUMP00000165052 antibody; OTTHUMP00000165053 antibody; OTTHUMP00000165054 antibody; PARP cleavage protease antibody; Procaspase3 antibody; Protein Yama antibody; SCA 1 antibody; SCA-1 antibody; SCA1 antibody; SREBP cleavage activity 1 antibody; Yama antibody; Yama protein antibody; anti-CASP3 antibody

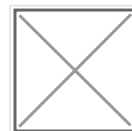
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                               |
| Reactivity                                      | Human                                                                                                                                                                                                |
| Clonality                                       | Polyclonal                                                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                                                  |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                     | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                 | 277                                                                                                                                                                                                  |
| Applicable Applications for anti-CASP3 antibody | ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                             |
| Immunogen                                       | A synthetic peptide corresponding to a sequence at the C-terminus of human Caspase-3 (P10) (220-236aa CAMLKQYADKLEFMHIL).                                                                            |
| Contents                                        | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                         | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES


**IHC (Immunohistochemistry)**

Anti-Caspase-3(P10), AAA45466, IHC(P)IHC(P): Human Lung Cancer Tissue


**WB (Western Blot)**

Anti-Caspase-3(P10), AAA45466, Western blottingLane 1: HELA Cell LysateLane 2: SMMC Cell Lysate



#### IHC (Immunohistochemistry)

Anti-Caspase-3(P10), AAA45466, IHC(P)IHC(P): Human Intestinal Cancer Tissue

### ADDITIONAL INFORMATION

#### Related Product Information for anti-CASP3 antibody

**Description:** Rabbit IgG polyclonal antibody for Caspase-3(CASP3) detection. Tested with WB, IHC-P, ICC in Human.

**Background:** Caspase 3 is a caspase protein which interacts with Survivin, XIAP, CFLAR, Caspase 8, HCLS1, Deleted in Colorectal Cancer, TRAF3 and GroEL. This gene which is located at 4q35 encodes a protein that is a 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 that undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7, and 9; and the protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. And the caspase-3 activation in heart failure sequentially cleaves SRF and generates a truncated SRF that appears to function as a dominant-negative transcription factor. Additionally, the caspase-3 influence on bone mineral density should be considered in any in vivo application of caspase-3 inhibitors to the treatment of human disease. In erythroid precursors undergoing terminal differentiation, Hsp70 prevents active CASP3 from cleaving GATA1 and inducing apoptosis.

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 77416852                                                                                                                                                                                  |
| NCBI GeneID                      | 836                                                                                                                                                                                       |
| UniProt Accession #              | P42574; Q96AN1; Q96KP2; A8K5M2; D3DP53                                                                                                                                                    |
| Molecular Weight                 | 31,608 Da                                                                                                                                                                                 |
| NCBI Official Full Name          | Caspase-3                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | caspase 3, apoptosis-related cysteine peptidase                                                                                                                                           |
| NCBI Official Symbol             | CASP3                                                                                                                                                                                     |
| NCBI Official Synonym Symbols    | CPP32; SCA-1; CPP32B                                                                                                                                                                      |
| NCBI Protein Information         | caspase-3; CASP-3; CPP-32; apopain; procaspase3; protein Yama; PARP cleavage protease; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis-related cysteine protease |
| UniProt Protein Name             | Caspase-3                                                                                                                                                                                 |
| UniProt Gene Name                | <b>CASP3</b>                                                                                                                                                                              |
| UniProt Synonym Gene Names       | CPP32; CASP-3; CPP-32; SCA-1                                                                                                                                                              |
| UniProt Entry Name               | CASP3_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://stage.aaabiotech.com/polyclonal/caspase-3p10-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/45466>