

## Rabbit anti-Human Caspase 3 Monoclonal Antibody | anti-CASP3 antibody

Active+Pro Caspase 3 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                            |
|-----------|--------|------------|---------------------------------------------------------|
| AAA312219 | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, Western Blot |

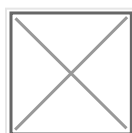
### PRODUCT SYNONYMS

Caspase 3; Monoclonal Antibody; Active+Pro Caspase 3 Antibody; Apopain antibody; CASP 3 antibody; CASP-3 antibody; CASP3 antibody; CASP3\_HUMAN antibody; Caspase 3 antibody; Caspase-3 subunit p12 antibody; CPP 32 antibody; CPP-32 antibody; CPP32B antibody; Cysteine protease CPP32 antibody; PARP cleavage protease antibody; Protein Yama antibody; SCA-1 antibody; SCA1 antibody; SREBP cleavage activity 1 antibody; Yama antibody; anti-CASP3 antibody

### PRODUCT SPECIFICATIONS

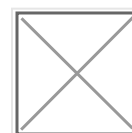
|                                                 |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                  |
| Reactivity                                      | Human                                                                   |
| Clonality                                       | Monoclonal                                                              |
| Clone Number                                    | SU38-04                                                                 |
| Purity/Purification                             | ProA affinity purified                                                  |
| Form/Format                                     | 1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.  |
| Applicable Applications for anti-CASP3 antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot) |
| Antibody Type                                   | Recombinant Antibody                                                    |
| Immunogen                                       | Recombinant protein                                                     |
| Conjugation                                     | Unconjugated                                                            |
| Preparation and Storage                         | Store at -20 degree C.                                                  |

### IMAGES



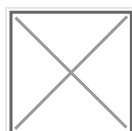
#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



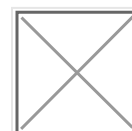
#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



#### WB (Western Blot)

Western blot analysis of active+pro Caspase 3 on Jurkat cells lysates using anti-active+pro Caspase 3 antibody at 1/1, 000 dilution.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CASP3 antibody | Caspase-3, also known as apopain, SCA-1, Yama and CPP32, is an aspartate-specific cysteine protease that belongs to the ICE subfamily of caspases. Caspase-3 is expressed in cells as an inactive precursor from which the p17 and p11 subunits of the mature caspase-3 are proteolytically generated during apoptosis. The caspase-3 precursor is first cleaved at Asp175-Ser176 to produce the p11 subunit and the p20 peptide. Subsequently, the p20 peptide is cleaved at Asp28-Ser29 to generate the mature p17 subunit. The active caspase-3 enzyme is a heterodimer composed of two p17 and two p11 subunits. At the onset of apoptosis, caspase-3 proteolytically cleaves PARP at an Asp216-Gly217 bond. During the execution of the apoptotic cascade, activated caspase-3 releases SREBP from the membrane of the ER in a proteolytic reaction that is distinct from their normal sterol-dependent activation. Caspase-3 cleaves and activates SREBPs between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Caspase-3 also cleaves and activates caspase-6, -7 and -9. The human caspase-3 gene encodes a cytoplasmic protein that is highly expressed in lung, spleen, heart, liver, kidney and cells of the immune system. |
| Product Categories/Family for anti-CASP3 antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 14790119                                                                                                                                                                                  |
| NCBI GeneID                      | 836                                                                                                                                                                                       |
| NCBI Accession #                 | NP_004337.2                                                                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_004346.3                                                                                                                                                                               |
| UniProt Accession #              | P42574; Q96AN1; Q96KP2; A8K5M2; D3DP53                                                                                                                                                    |
| Molecular Weight                 | 31,608 Da                                                                                                                                                                                 |
| NCBI Official Full Name          | caspase-3 preproprotein                                                                                                                                                                   |
| 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                | CASP3                                                                                                                                                                                     |
| 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.