

## Rabbit anti-Human Caspase-3 Monoclonal Antibody

Caspase-3 (RM250)

|                              |                       |                            |
|------------------------------|-----------------------|----------------------------|
| CATALOG #<br><b>AAA59359</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> |
|------------------------------|-----------------------|----------------------------|

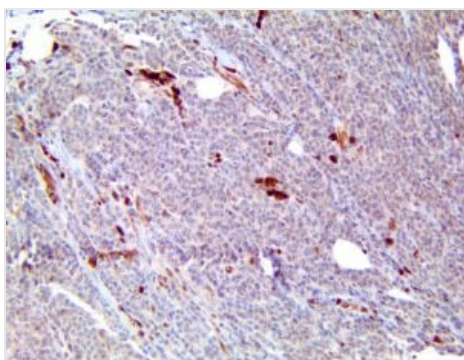
### PRODUCT SYNONYMS

Caspase-3; Monoclonal Antibody; Caspase-3 (RM250); caspase-3; anti-caspase-3; caspase3; caspase 3; anti-caspase; casepase; anti-casepase; casepase-3; casepase 3; anti-casepase-3; cystein-aspartic acid protease encoded; casp3; anti-casp3; casp-3; anti-casp-3; anti-Caspase-3 antibody

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Rabbit                                                                                                                                                                                                                                 |
| Reactivity              | Human                                                                                                                                                                                                                                  |
| Clonality               | Monoclonal                                                                                                                                                                                                                             |
| Isotype                 | IgG                                                                                                                                                                                                                                    |
| Clone Number            | RM250                                                                                                                                                                                                                                  |
| Form/Format             | Paraffin, Frozen<br>Casepase-3 is a rabbit monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH7.5, containing BSA and sodium azide as a preservative. |
| Immunogen               | Synthetic peptide corresponding to residues within the human Caspase-3 subunit p17.                                                                                                                                                    |
| Control                 | Colon, Tonsil, Testis, Fallopian Tube, Stomach, Transitional Cell Carcinoma                                                                                                                                                            |
| Localization            | Nuclear, Cytoplasmic                                                                                                                                                                                                                   |
| Preparation and Storage | Store at 2-8 degree C (Control Slides: Store at 20-25 degree C)                                                                                                                                                                        |

### IMAGES



#### IHC (Immunohistochemistry)

Caspase-3 Antibody Immunohistochemistry on an FFPE HER-2 Negative Breast Carcinoma Tissue

| Antibody Type  | Dilution     | Volume/Qty |
|----------------|--------------|------------|
| Prediluted     | Ready To Use | 3.0 ml     |
| Prediluted     | Ready To Use | 7.0 ml     |
| Prediluted     | Ready To Use | 15.0 ml    |
| Concentrated   | 1:50-1:200   | 0.1 ml     |
| Concentrated   | 1:50-1:200   | 0.5 ml     |
| Concentrated   | 1:50-1:200   | 1.0 ml     |
| Control Slides |              | 5          |

#### Dilution Info

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for anti-Caspase-3 antibody | <p>Caspase-3 is a cysteine-aspartic acid protease encoded by the gene CASP3 on chromosome 4q35.1. Caspase-3 belongs to the caspase family, which is a family of enzymes crucial to mediating apoptosis. Once activated, Caspase-3 degrades intracellular proteins as well as functional proteins and induces cell death.</p> <p>Dysregulated apoptosis is a typical characteristic of human cancer. Abnormal Caspase-3 antibody expression has been directly associated with acute Myelogenous Leukemia, where Caspase-3 overexpression has been detected. On the contrary, decreased expression of Caspase-3 has been found in Prostate Cancer. Another study has found a significant association between high Caspase-3 levels and increased death rates in Breast Cancer using IHC, highlighting the prognostic potential of Caspase-3. In another study, IHC analysis of Gastric, Ovarian, Cervical, and Colorectal Cancer demonstrated that patients with high expression of cleaved Caspase-3 had a significantly shorter overall survival time compared with those with low cleaved Caspase-3 expression. Additionally, a link between Caspase-3 antibody expression and tumor stage and lymph node metastasis was found in Gastric and Ovarian cancer. Caspase-3 is the predominant caspase involved in amyloid-beta precursor protein (APP) cleavage, consistent with its marked elevation in dying neurons of Alzheimer's disease brains and colocalization of its APP cleavage product with Abeta in senile plaques. Caspases thus appear to play a dual role in proteolytic processing of APP and the resulting propensity for Abeta peptide formation, as well as in the ultimate apoptotic death of neurons in Alzheimer's disease.</p> |
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**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/monoclonal/caspase-3-antibody-clone-rm250-elisa/59359>