

## Human Caspase-3 ELISA Kit | caspase-3 elisa kit

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CATALOG #  
**AAA88148**

REACTIVITY  
**Human**

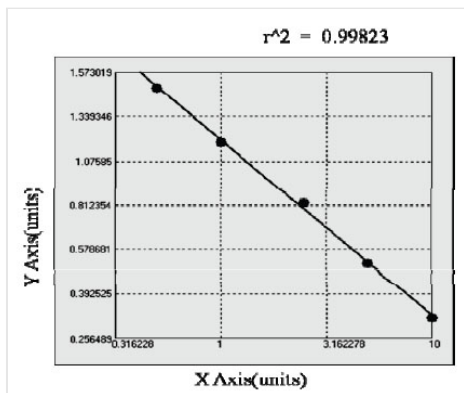
### PRODUCT SYNONYMS

Caspase-3; Human Caspase-3 ELISA Kit; caspase-3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                      |
| Sequence Length         | 277                                                                                                                                                                                        |
| Assay Type              | Competitive or Sandwich                                                                                                                                                                    |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                                 |
| Sensitivity             | 0.1 ng/mL.                                                                                                                                                                                 |
| Intended Uses           | This CASP-3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CASP-3. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for caspase-3 elisa kit

**Principle of the assay:** CASP-3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CASP-3 antibody and an CASP-3-HRP conjugate. The assay sample and buffer are incubated together with CASP-3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CASP-3 concentration since CASP-3 from samples and CASP-3-HRP conjugate compete for the anti-CASP-3 antibody binding site. Since the number of sites is limited, as more sites are occupied by CASP-3 from the sample, fewer sites are left to bind CASP-3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CASP-3 concentration in each sample is interpolated from this standard curve.

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; Q5HYI3                                                                                                                                                  |
| 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; Yama; 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/human-elisa-kits/caspase-3/88148>