

Product Datasheet

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Caspase-3 Rabbit Monoclonal Antibody

Catalog #: EAB21376

| | 01 111 | A 11 41 | | a 4.4 |
|--------------|---------------|---------------------------|----------|--------------|
| Host/Isotype | Clonality | Applications | MW (kDa) | Reactivity |
| Rabbit IgG | Polyclonal | WB, IP, IHC-P, IF/ICC, FC | 32 | Human, Rat |

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| WB (Western Blotting) | 1:500-2000 |
|--|------------|
| IP(Immunoprecipitation) | 1:10-100 |
| IHC-P(Immunohistochemistry-Paraffin) | 1:50-200 |
| IF/ICC(Immunofluorescence/Immunocytochemistry) | 1:50-200 |
| FC(Flow Cytometry) | 1:10-100 |

Product Information

Conjugate Unconjugate

Specificity Caspase-3 Rabbit Monoclonal Antibody detects endogenous levels of Caspase-3 protein.

Purification Affinity purification

Concentration1mg/mlFormatLiquid

Formulation In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol

Shipping Gel Pack

Storage Storag

Aliquots may be stored at +4°C for 1-2 weeks

 UniProt ID
 P42574

 Entrez-Gene Id
 836

Product Description

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.