

Caspase-3, rat recombinant protein

Caspase 3

Catalog # PBV10032r

Specification

Caspase-3, rat recombinant protein - Product info

Calculated MW large (17 kD) and small (11 kD) subunits

KDa

Caspase-3, rat recombinant protein - Additional Info

Other Names

Caspase-3, Short name=CASP-3, Apopain, Cysteine protease CPP32, Short name=CPP-32, IRP, LICE, Protein Yama, SREBP cleavage activity 1, Short name=SCA-1

Gene Source
Source
E. coli
Assay&Purity
Assay2&Purity2
Recombinant

Rat
E. coli
F. col

Target/Specificity

Caspase-3

Application Notes

Reconstitute to 1 unit per µl in PBS containing 15% glycerol.

Format

Lyophilized powder

Storage

-70°C; Lyophilized powder

Caspase-3, rat recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Caspase-3, rat recombinant protein - Images

Caspase-3, rat recombinant protein - Background





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Caspase-3 (also know as CPP32, Yama and apopain) is a major member of the caspase-family of cysteine proteases. Caspase-3 exists in cells as an inactive 32 kDa proenzyme. During apoptosis procaspase-3 is processed at aspartate residues by self-proteolysis and/or cleavage by upstream caspases, such as caspase-6 (Mch2), caspase-8 (Flice) and grazyme B. The processed form of caspase-3 consists of large (17 kD) and small (11 kD) subunits which associate to form the active enzyme. The active caspase-3 has been shown involving in the proteolysis of several important molecules, such as poly (ADP-ribose) polymerase (PARP), the sterol regulatory element binding proteins (SREBPs), focal adhesion kinase (FAK), and others. The recombinant active human caspase-3 expressed in E. coli spontaneously undergoes autoprocessing to yield subunits characteristic of the native enzyme. The active caspase-3 preferentially cleaves caspase-3 substrates (e.g., DEVD-AFC or DEVD-pNA) and is routinely tested at BioVision for its ability to enzymatically cleave these two substrates Ac-DEVD-pNA or Ac-DEVD-AFC.