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Caspase-1, mouse recombinant protein

Caspase 1
Catalog # PBV10027r

Specification

Caspase-1, mouse recombinant protein - Product info

Primary Accession	P29452
Calculated MW	large (20 kD) and small (10 kD) subunits. KDa

Caspase-1, mouse recombinant protein - Additional Info

Gene ID	12362
Gene Symbol	CASP1

Other Names
Caspase-1, Short name=CASP-1, Interleukin-1 beta convertase, Short name=IL-1BC, Interleukin-1 beta-converting enzyme, Short name=ICE, IL-1 beta-converting enzyme, p45

Gene Source	Mouse
Source	E. coli
Assay&Purity	SDS-PAGE;
Assay2&Purity2	HPLC;
Recombinant	Yes

Target/Specificity
Caspase-1

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

Format
Semi-Dry

Storage
The lyophilized caspase-1 is stable for 1 year at –70°C. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at –70°C. Avoid multiple freeze/thaw cycles as activity might decrease.

Caspase-1, mouse recombinant protein - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

- Cell Culture

Caspase-1, mouse recombinant protein - Images

Caspase-1, mouse recombinant protein - Background

Caspase-1 (also know as ICE) is a prototypical member of the caspase-family of cysteine proteases. Caspase-1 exists in cells as an inactive 45 kDa proenzyme. The pro-enzyme is matured by proteolysis to yield large (20 kD) and small (10 kD) subunits. The active caspase-1 is a heterotetramer consisting of two large and two small subunits. To date the regulatory mechanism of caspase-1 activation and the role of caspase-1 in apoptosis are poorly understood. In THP-1 cells, a large proportion of the caspase-1 is present in the inactive proenzyme form.

The recombinant active mouse caspase-1 was expressed in E. coli. The active caspase-1 preferentially cleaves caspase-1 substrates (e.g., YVAD-AFC or YVAD-pNA) and is routinely tested at BioVision for its ability to enzymatically cleave these two substrates Ac-YVAD-pNA or Ac-YVAD-AFC

Caspase-1, mouse recombinant protein - References

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