

## Caspase-1, human recombinant protein

Caspase-1

Catalog # PBV10010r

#### **Specification**

#### Caspase-1, human recombinant protein - Product info

Primary Accession P29466

Calculated MW large (20 kD) and small (10 kD) subunitsk

**KDa** 

## Caspase-1, human recombinant protein - Additional Info

Gene ID 834
Gene Symbol CASP1

**Other Names** 

Caspase-1, CASP-1, Interleukin-1 beta convertase, IL-1BC, IL-1 beta-converting enzyme, p45

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

Human
E.coli
SDS-PAGE;
HPLC;
Yes

**Target/Specificity** 

Caspase-1

## **Application Notes**

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

#### **Format**

Semi-Dry powder

### **Storage**

-70°C; Lyophilized powder

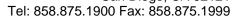
## Caspase-1, human recombinant protein - Protocols

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, human recombinant protein - Images







## Caspase-1, human 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 human 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. The rh-Caspase has an N-term His-tag and corresponds to amino acids 120-404 of Caspase-1, gene accession# NP 150634.1.