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# Active Caspase-1, rat recombinant protein

**Interleukin-1 beta convertase, Interleukin-1 beta-converting enzyme, IL-1BC, p45.**
**Catalog # PBV11136r**

## Specification

### Active Caspase-1, rat recombinant protein - Product info

| | |
|---|---|
| Primary Accession | P43527 |
| Calculated MW | ~ 34.6 KDa KDa |

### Active Caspase-1, rat recombinant protein - Additional Info

| | |
|---|---|
| Gene Symbol | Casp1 |

**Other Names**
Interleukin-1 beta convertase, Interleukin-1 beta-converting enzyme, IL-1BC, p45.

| | |
|---|---|
| Gene Source | Rat |
| Source | E. coli |
| Assay&Purity | N/A; |
| Assay2&Purity2 | N/A; |
| Recombinant | Yes |
| Results | >3000 units/mg |

**Target/Specificity**
Caspase-1

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

**Format**
Semi-Dry

**Storage**
-80°C; Semi-Dry

### Active Caspase-1, rat 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

### Active Caspase-1, rat recombinant protein - Images

### Active Caspase-1, rat recombinant protein - Background

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Caspase-1 (also known 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 kDa) and small (10 kDa) 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 rat caspase-1 was expressed in E. coli as a single polypeptide of 284 amino acids with molecular weight of 34.6. The caspase-1 is purified and activated by proprietary techniques.

**Active Caspase-1, rat recombinant protein - References**

Keane K.M.,et al.Cytokine 7:105-110(1995).
Flaws J.A.,et al.Endocrinology 136:5042-5053(1995).