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**Active Human Caspases Group I, Active Human recombinant protein**  
Active Human Caspases Group I, Active Human  
Catalog # PBV11432r**Specification**

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**Active Human Caspases Group I, Active Human recombinant protein - Product info**Primary Accession [P51878](#)**Active Human Caspases Group I, Active Human recombinant protein - Additional Info**

Gene ID	<b>CASP1- 834 CASP4- 837 CASP5 -838</b>
Gene Symbol	<b>CASP1 CASP4 CASP5</b>
Gene Source	<b>Human</b>
Source	<b>E. coli</b>
Assay&Purity	<b>SDS-PAGE;</b>
Assay2&Purity2	<b>HPLC;</b>
Recombinant	<b>Yes</b>

**Application Notes**Reconstitute to 1 unit/  $\mu$ l in PBS containing 15% glycerol.**Format**

Lyophilized

**Storage**

-70°C; Lyophilized powder

**Active Human Caspases Group I, Active 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 Cytometry](#)
- [Cell Culture](#)

**Active Human Caspases Group I, Active Human recombinant protein - Background**

The caspase family consists of more than 10 members. Based on their extended substrate specificities, these enzymes were divided into three major groups: Group I (contains caspase-1,-4,-5), Group II (contains caspase-2,-3,-7), and Group III (contains caspase-6,-8,-9,-10). Evidences have suggested that Group I caspases are involved primarily in the production of inflammatory cytokines, while group II and III enzymes function in apoptosis as effectors and upstream activators, respectively. The group I caspases were expressed in E. coli and routinely tested for their ability to enzymatically cleave the substrate YVAD-pNA (for caspase-1) and WEHD-pNA (for caspase-4 & -5).

**Active Human Caspases Group I, Active Human recombinant protein - References**

Eckhart L.,et al.Biochem. Biophys. Res. Commun. 348:682-688(2006).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Taylor T.D.,et al.Nature 440:497-500(2006).  
Munday N.A.,et al.J. Biol. Chem. 270:15870-15876(1995).  
Faucheu C.,et al.Eur. J. Biochem. 236:207-213(1996).