

## Interleukin 1 Beta Active Protein | IL1b active protein

Active Interleukin 1 Beta (IL1b)

CATALOG #  
**AAA150092**

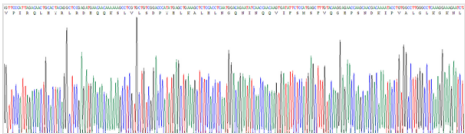
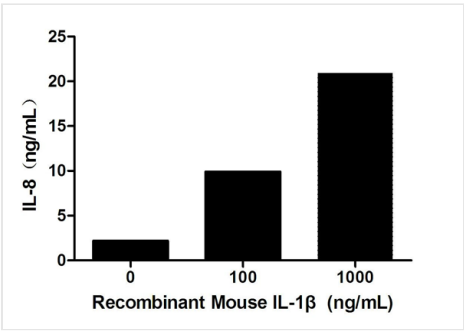
APPLICATIONS  
**Activity Assay, Cell Culture**

### PRODUCT SYNONYMS

Interleukin 1 Beta; Active Interleukin 1 Beta (IL1b); IL1-B; IL1-Beta; IL1F2; IL-1beta; Interleukin-1 Family Member 2; Catabolin; IL1b active protein

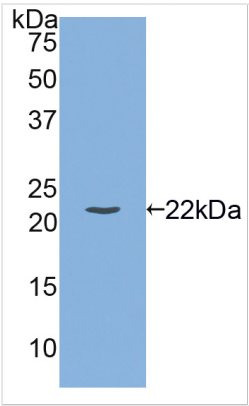
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                             | >97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                     | Freeze-dried powder<br>20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions                              | Val118-Ser269                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                 | 269                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for IL1b active protein | Activity Assay, Cell Culture                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                                         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tag                                             | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isoelectric Point                               | 8.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reconstitution                                  | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                         | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

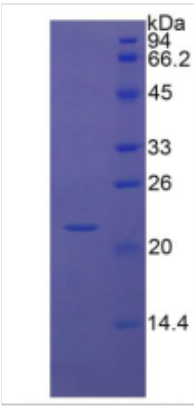


Gene Sequencing  
Figure. Gene Sequencing (Extract

**Application Data**  
Interleukin 1 beta (IL-1) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a member of the interleukin 1 family of cytokines. This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. It has been reported that IL-1 can induced IL-8 production in A549 cells. To test the bioactivity of IL-1, A549 cells were seeded into 24-well plate at a density of 1x106 cells/mL, and allowed to attach overnight before treated with certain concentrations (0.1ng/mL-1000ng/mL) of IL-1 for 24h and IL-8 levels in the cell supernatant were determined by ELISA. IL-8 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL-1 have shown in Figure1. Figure. IL-8 levels in the cell supernatant of A549 induced by IL-1.



WB (Western Blot)  
Figure. Western Blot; Sample: Recombinant IL1b, Mouse; Antibody: Rabbit Anti-Mouse IL1b Ab (PAA563Mu02



SDS-PAGE  
Figure. SDS-PAGE

ADDITIONAL INFORMATION

|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| Product Categories/Family for IL1b active protein | Cytokine; Tumor immunity; Infection immunity |
|---------------------------------------------------|----------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| NCBI GI #                 | 6680415                                                             |
| NCBI GeneID               | 16176                                                               |
| NCBI Accession #          | NP_032387.1                                                         |
| NCBI GenBank Nucleotide # | NP_032387.1                                                         |
| UniProt Accession #       | P10749                                                              |
| Molecular Weight          | Predicted Molecular Mass: 20.3kDa<br>Accurate Molecular Mass: 19kDa |
| NCBI Official Full Name   | interleukin-1 beta                                                  |

|                                  |                    |
|----------------------------------|--------------------|
| NCBI Official Synonym Full Names | interleukin 1 beta |
| NCBI Official Symbol             | Il1b               |
| NCBI Official Synonym Symbols    | Il-1b; IL-1beta    |
| NCBI Protein Information         | interleukin-1 beta |
| UniProt Protein Name             | Interleukin-1 beta |
| UniProt Gene Name                | <b>Il1b</b>        |
| UniProt Synonym Gene Names       | IL-1 beta          |
| UniProt Entry Name               | IL1B_MOUSE         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/il1b-active-protein/interleukin-1-beta/150092>