

## Human Interleukin 1 Beta (IL1b) ELISA Kit | IL1b elisa kit

Human Interleukin 1 Beta (IL1b) High Sensitive ELISA Kit

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA188504</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

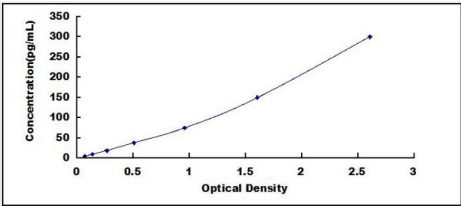
### PRODUCT SYNONYMS

Interleukin 1 Beta (IL1b); Human Interleukin 1 Beta (IL1b) High Sensitive ELISA Kit; Interleukin 1 Beta; IL1-B; IL1-Beta; IL1F2; IL-1beta; Interleukin-1 Family Member 2; Catabolin; IL1b elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Reactivity</b>                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Specificity</b>                                | This assay has high sensitivity and excellent specificity for detection of High Sensitive Interleukin 1 Beta (IL1b). No significant cross-reactivity or interference between High Sensitive Interleukin 1 Beta (IL1b) and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sequence Length</b>                            | 269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Assay Type</b>                                 | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Samples</b>                                    | Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Detection Range</b>                            | 4.69-300pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sensitivity</b>                                | The minimum detectable dose of this kit is typically less than 1.59pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applicable Applications for IL1b elisa kit</b> | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Precision</b>                                  | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Sensitive Interleukin 1 Beta (IL1b) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level High Sensitive Interleukin 1 Beta (IL1b) were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%<br>Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Principle</b>                             | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to High Sensitive Interleukin 1 Beta (IL1b). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to High Sensitive Interleukin 1 Beta (IL1b). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain High Sensitive Interleukin 1 Beta (IL1b), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of High Sensitive Interleukin 1 Beta (IL1b) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| <b>Preparation and Storage</b>                    | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 10835145                       |
| NCBI GeneID                      | 3553                           |
| NCBI Accession #                 | NP_000567.1                    |
| NCBI GenBank Nucleotide #        | NP_000567.1                    |
| UniProt Accession #              | P01584                         |
| NCBI Official Full Name          | interleukin-1 beta proprotein  |
| NCBI Official Synonym Full Names | interleukin 1 beta             |
| NCBI Official Symbol             | IL1B                           |
| NCBI Official Synonym Symbols    | IL-1; IL1F2; IL1beta; IL1-BETA |
| NCBI Protein Information         | interleukin-1 beta             |
| UniProt Protein Name             | Interleukin-1 beta             |
| UniProt Gene Name                | IL1B                           |
| UniProt Synonym Gene Names       | IL1F2; IL-1 beta               |
| UniProt Entry Name               | IL1B_HUMAN                     |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/interleukin-1-beta-il1b/188504>