

## Human IL-1beta ELISA Kit | IL-1beta elisa kit

IL-1beta Human ELISA Kit

|                              |                            |                              |
|------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA59037</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

### PRODUCT SYNONYMS

IL-1beta; IL-1beta Human ELISA Kit; Human IL-1beta; IL-1beta elisa kit

### PRODUCT SPECIFICATIONS

|                                                |                                                                        |
|------------------------------------------------|------------------------------------------------------------------------|
| Reactivity                                     | Human                                                                  |
| Assay Type                                     | Sandwich                                                               |
| Samples                                        | Human serum, plasma, urine, cell culture supernatant or tissue samples |
| Detection Range                                | 1.56 pg/ml-100 pg/ml                                                   |
| Applicable Applications for IL-1beta elisa kit | ELISA                                                                  |
| Preparation and Storage                        | Store at 2-8 degree C for 6 months.                                    |

### IMAGES

**Typical Data & Standard Curve**

Results of a typical standard run of a human IL-1β ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

| X | Pg/ml | 0     | 1.56  | 3.12  | 6.25  | 12.5  | 25    | 50    | 100   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.015 | 0.075 | 0.134 | 0.201 | 0.418 | 0.637 | 1.358 | 2.346 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

**Related Product Information for IL-1beta elisa kit**

Background: Interleukin-1beta (IL-1beta) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. It can reset glucose homeostasis at central levels. It cause oligodendrocyte death in coculture with astrocytes and microglia, and also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B (NFKB)-regulated genes. Pathak et al. (2011) proposed that IL1B blockade may be a viable therapy for patients with autoimmune inner ear disease or sensorineural hearing loss that fail to respond to corticosteroids.

Principle of the Assay: This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. The purified anti-IL-1beta antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-IL-1beta antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, mixed and incubated, then, unbound conjugates were washed away with wash buffer. TMB substrates (A & B) were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL-1beta amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-1beta can be calculated.

### NCBI AND UNIPROT INFORMATION

|           |         |
|-----------|---------|
| NCBI GI # | 6680415 |
|-----------|---------|

|                                  |                               |
|----------------------------------|-------------------------------|
| NCBI GeneID                      | <a href="#">16176</a>         |
| NCBI Accession #                 | <a href="#">NP_032387.1</a>   |
| NCBI GenBank Nucleotide #        | <a href="#">NM_008361.3</a>   |
| UniProt Accession #              | <a href="#">P10749</a>        |
| Molecular Weight                 | 30,931 Da                     |
| 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; IL-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://stage.aaabiotech.com/human-elisa-kits/il-1beta/59037>