

## Rat IL-1 beta ELISA Kit | IL1B elisa kit

Rat IL-1 beta PicoKine ELISA Kit

CATALOG #  
**AAA11564**

REACTIVITY  
**Rat**

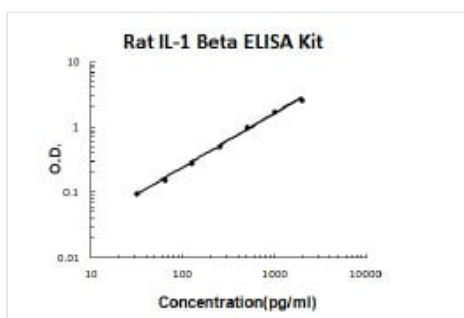
### PRODUCT SYNONYMS

IL-1 beta; Rat IL-1 beta PicoKine ELISA Kit; Interleukin-1 beta; interleukin 1; beta; Catabolin; Hematopoietin 1; IFN beta inducing factor; IL 1; IL 1 beta; IL 1B; IL1; IL1 BETA; IL1B; IL1B\_HUMAN; IL1F2; Interleukin 1 beta; Interleukin 1 beta precursor; LAF; OAF; Osteoclast activating factor; Preinterleukin beta; Pro interleukin 1 beta; IL1B elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                  |
| Specificity             | Natural and recombinant Rat IL1B                                                                                                                     |
| Sequence Length         | 268                                                                                                                                                  |
| Samples                 | Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)                                                                            |
| Detection Range         | 31.2pg/ml-2000pg/ml                                                                                                                                  |
| Sensitivity             | <1pg/ml                                                                                                                                              |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.    |
| Inter-assay Precision   | Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                           |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Related Product Information for IL1B elisa kit | <p>Principle of the Assay: The Picokine™ Rat IL1B Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat IL1B with a 96-well strip plate that is pre-coated with antibody specific for IL1B. The detection antibody is a biotinylated antibody specific for IL1B. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat IL1B with immunogen: Expression system for standard: E.coli; Immunogen sequence: V117-S268. The kit is analytically validated with ready to use reagents. To measure Rat IL1B, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Rat IL1B in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat IL1B in the sample.</p> <p>Background/Introduction: The Interleukin 1 family is a group of 11 beta trefoil cytokines. Interleukin-1, produced mainly by blood monocytes, mediates the panoply of host reactions collectively known as acute phase response. Interleukin-1beta(IL-1beta) is a potent stimulator of bone resorption, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta belongs to proinflammatory cytokines, promote cancer cell adhesion and liver metastases by up-regulating the expression of vascular cell adhesion molecule-1(VCAM-1) on hepatic sinusoidal endothelium(HSE).</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                               |
|----------------------------------|-------------------------------|
| NCBI GI #                        | 81909490                      |
| NCBI GeneID                      | 24494                         |
| UniProt Accession #              | Q5BKB0; Q63264                |
| Molecular Weight                 | 30,659 Da                     |
| NCBI Official Full Name          | Interleukin 1 beta            |
| NCBI Official Synonym Full Names | interleukin 1 beta            |
| NCBI Official Symbol             | IL1b                          |
| NCBI Protein Information         | interleukin-1 beta; IL-1 beta |
| UniProt Protein Name             | Interleukin 1 beta            |
| UniProt Gene Name                | IL1b                          |
| UniProt Entry Name               | Q5BKB0_RAT                    |

**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://stage.aaabiotech.com/il1b-rat-elisa-kits/il-1-beta/11564>