

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

Rat Interleukin 1beta ELISA Kit

CATALOG #  
AAA87277

REACTIVITY  
Rat

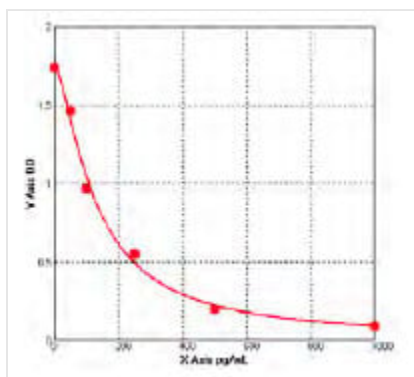
### PRODUCT SYNONYMS

Interleukin 1beta; Rat Interleukin 1beta ELISA Kit; Rat Interleukin 1b ELISA Kit; IL-1beta elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Rat                                                                        |
| Samples                 | Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate |
| Assay Type              | Quantitative Competitive                                                   |
| Sensitivity             | 1.0 pg/mL.                                                                 |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

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

**Intended Uses:** This IL-1beta ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine IL-1beta. This ELISA kit for research use only!

**Principle of the Assay:** IL-1beta ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-IL-1beta antibody and an IL-1beta-HRP conjugate. The assay sample and buffer are incubated together with IL-1beta-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the IL-1beta concentration since IL-1beta from samples and IL-1beta-HRP conjugate compete for the anti-IL-1beta antibody binding site. Since the number of sites is limited, as more sites are occupied by IL-1beta from the sample, fewer sites are left to bind IL-1beta-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The IL-1beta concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| NCBI GI #                        | 10835145                                                                                |
| NCBI GeneID                      | 3553                                                                                    |
| NCBI Accession #                 | NP_000567.1                                                                             |
| NCBI GenBank Nucleotide #        | NM_000576.2                                                                             |
| Molecular Weight                 | 30,748 Da                                                                               |
| 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; IL1-BETA                                                                   |
| NCBI Protein Information         | interleukin-1 beta; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta |
| UniProt Protein Name             | Interleukin-1 beta                                                                      |
| UniProt Gene Name                | <b>IL1B</b>                                                                             |
| 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.