

## Rat IL-6 ELISA Kit | IL-6 elisa kit

Rat IL-6 (Interleukin 6) ELISA Kit

CATALOG #  
**AAA165689**

REACTIVITY  
**Rat**

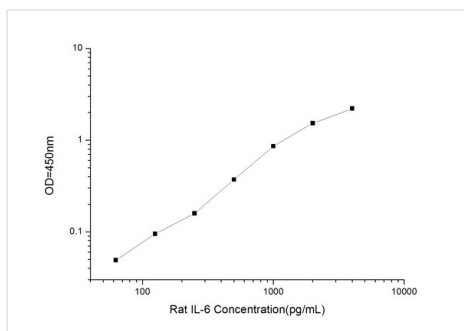
### PRODUCT SYNONYMS

IL-6; Rat IL-6 (Interleukin 6) ELISA Kit; IL-6 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                     |
| Specificity             | This kit recognizes Rat IL-2SR in samples. No significant cross-reactivity or interference between Rat IL-2SR and analogues was observed.                               |
| Sequence Length         | 211                                                                                                                                                                     |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                               |
| Assay Type              | Quantitative Sandwich                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Rat IL-6 were tested 20 times on one plate, respectively.               |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Rat IL-6 were tested on 3 different plates, 20 replicates in each plate. |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                    |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Related Product Information for IL-6 elisa kit | <p>Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Rat IL-6 concentrations in serum, plasma and other biological fluids.</p> <p>Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Rat IL-6. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Rat IL-6 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Rat IL-6, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of Rat IL-6. You can calculate the concentration of Rat IL-6 in the samples by comparing the OD of the samples to the standard curve.!!Background/Introduction: Interleukin-6 (IL-6) is a multifactorial pro-inflammatory cytokine belonging to the family of IL-1 cytokines. It is produced by different types of cells, including activated macrophages, monocytes, fibroblasts, activated T lymphocytesand B lymphocytes, endothelial cells, as well as cancer cells. IL-6 mediates several important physiological functions including control of the acute phase response during inflammation, production of adhesion molecules and induction of secretion of other inflammation mediators such as tumor necrosis factor. IL-6 may also mediate carcinogenesis by several mechanisms, including stimulation of cell proliferation, reduction of apoptosis, alteration of enzymes involved in tumor invasion and promotion of bone metastases [1]. IL-6 is also one of the factors that may contribute to increased growth of prostate cancer cells in the absence of androgens by activation of androgen receptor [2]. IL-6 can also contribute to the transformation of benign prostate cells into malignant cells and promote epithelial mesenchymal transition [3]. The levels of IL-6 also correlate with prostate tumor burden, serum prostatespecific antigen and metastasis.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 7549769                                                 |
| NCBI GeneID                      | 24498                                                   |
| NCBI Accession #                 | NP_036721.1                                             |
| NCBI GenBank Nucleotide #        | NM_012589.2                                             |
| UniProt Accession #              | P20607                                                  |
| Molecular Weight                 | 24,357 Da                                               |
| NCBI Official Full Name          | interleukin-6                                           |
| NCBI Official Synonym Full Names | interleukin 6                                           |
| NCBI Official Symbol             | IL6                                                     |
| NCBI Official Synonym Symbols    | ILg6; Ifnb2                                             |
| NCBI Protein Information         | interleukin-6; IL-6; Interleukin 6 (interferon, beta 2) |
| UniProt Protein Name             | Interleukin-6                                           |
| UniProt Gene Name                | IL6                                                     |
| UniProt Synonym Gene Names       | IL-6; IL-6                                              |
| UniProt Entry Name               | IL6_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.