

## Mouse IL-6 ELISA Kit | IL6 elisa kit

Mouse IL-6 ELISA Kit

|                              |                            |                              |
|------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA17871</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

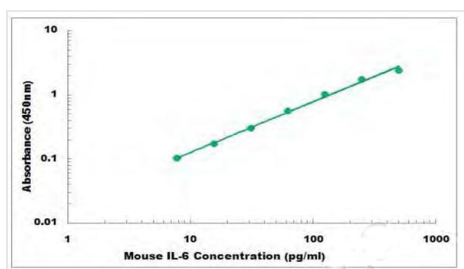
### PRODUCT SYNONYMS

IL-6; Mouse IL-6 ELISA Kit; IFNB2; Interleukin-6; B-cell stimulatory factor 2; BSF-2; CTL differentiation factor; CDF; Hybridoma growth factor; Interferon beta-2; IFN-beta-2; IL6 elisa kit

### PRODUCT SPECIFICATIONS

|                                           |                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                | Mouse                                                                                                                                                                                  |
| Specificity                               | The Mouse IL-6 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse IL-6 proteins within the range of 7.8 pg/ml - 500 pg/ml. |
| Sequence Length                           | 211                                                                                                                                                                                    |
| Samples                                   | Culture Supernatants, Serum, Plasma, Tissue Homogenates                                                                                                                                |
| Sensitivity                               | < 4 pg/ml                                                                                                                                                                              |
| Applicable Applications for IL6 elisa kit | ELISA (Sandwich ELISA)                                                                                                                                                                 |
| Preparation and Storage                   | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                            |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for IL6 elisa kit

Background: Interleukin 6 is a multifunctional cytokine that plays important roles in host defense, acute phase reactions, immune responses, nerve cell functions and hematopoiesis. It is expressed by a variety of normal and transformed lymphoid and nonlymphoid cells. IL-6 is a prototypic member of the IL-6 superfamily of cytokines that share gp130 as a component required for signal transduction. The mouse, rat and human IL-6 cDNAs have been cloned. The mouse IL-6 cDNA encodes a 211 amino acid residue precursor polypeptide with a hydrophobic signal sequence that is cleaved to generate the 187 aa residue mature protein. Mouse to rat and human, there is approximately 87% and 39% aa identity, respectively. Although human and mouse IL-6 are equally active on mouse cells, mouse IL-6 is not active on human cells. The high-affinity IL-6 receptor complex, which mediates IL-6 bioactivity, consists of two membrane glycoproteins. The production of IL-6 is upregulated by numerous signals such as mitogenic or antigenic stimulation, lipopolysaccharides, calcium ionophores, cytokines and viruses. IL-4, IL-10 and IL-13 inhibit IL-6 expression in monocytes. Elevated serum IL-6 levels have been observed in a number of pathological conditions, including bacterial and viral infections, trauma, autoimmune diseases, inflammations and malignancies.

Principle of the Assay: The Mouse IL-6 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IL-6 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Mouse IL-6 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL-6 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse IL-6 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL-6 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">13624311</a>                                                 |
| NCBI GeneID                      | <a href="#">16193</a>                                                    |
| NCBI Accession #                 | <a href="#">NP_112445.1</a>                                              |
| NCBI GenBank Nucleotide #        | <a href="#">NM_031168.1</a>                                              |
| UniProt Accession #              | <a href="#">P08505</a> ; <a href="#">Q3UCQ0</a> ; <a href="#">Q8BN26</a> |
| Molecular Weight                 | 24,384 Da                                                                |
| NCBI Official Full Name          | interleukin-6                                                            |
| NCBI Official Synonym Full Names | interleukin 6                                                            |
| NCBI Official Symbol             | IL6                                                                      |
| NCBI Official Synonym Symbols    | IL-6                                                                     |
| NCBI Protein Information         | interleukin-6; interleukin HP-1; B-cell hybridoma growth factor          |
| UniProt Protein Name             | Interleukin-6                                                            |
| UniProt Gene Name                | <b>IL6</b>                                                               |
| UniProt Synonym Gene Names       | IL-6; IL-6                                                               |
| UniProt Entry Name               | IL6_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.