

## Rat IL-2 ELISA Kit | IL-2 elisa kit

Rat IL-2 ELISA KIT

CATALOG #  
**AAA309912**

REACTIVITY  
**Rat**

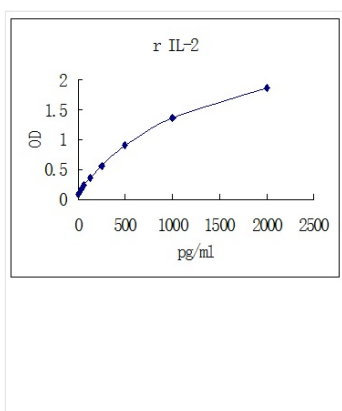
### PRODUCT SYNONYMS

IL-2; Rat IL-2 ELISA KIT; Rat IL-2; IL-2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Reactivity              | Rat                                                              |
| Specificity             | Natural and recombinant Rat IL-2 Ligand                          |
| Assay Type              | Solid Phase Sandwich ELISA                                       |
| Samples                 | Cell culture supernatant, serum, plasma (EDTA, citrate, heparin) |
| Detection Range         | 0.03-2.0 ng/mL                                                   |
| Sensitivity             | 7pg/mL                                                           |
| Assay Time              | 3 hour                                                           |
| Sample Volume           | 20 uL                                                            |
| Detection Method        | Colorimetric                                                     |
| Preparation and Storage | Store at 4 degree C                                              |

### IMAGES



#### Standard Curve (Sample)

Representative standard curve for IL-2 ELISA. IL-2 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Related Product Information for IL-2 elisa kit | Interleukin 2 (IL-2) is a pleiotropic cytokine produced primarily by mitogen- or antigen-activated T lymphocytes (1, 2). It plays a key role in promoting the clonal expansion of antigen-specific T cells. In addition, IL-2 has been shown to mediate multiple immune responses on a variety of cell types.IL-2 has been found to stimulate growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendocytes. IL-2 is involved in treatment of cancers such as melanoma and renal cell cancer. It plays a key role in promoting the clonal expansion of antigen-specific T cells. In addition, IL-2 has also been shown to mediate multiple immune responses on a variety of cell types.The sequence of rat IL-2 cDNA predicts a 155 amino acid (aa) residue precursor glycoprotein containing a 20 aa residue signal peptide that is cleaved to form the mature protein (3). At the amino acid sequence level, mature rat IL-2 is approximately 80% identical to mouse IL-2 (1-4).The biological effects of IL-2 are mediated by specific cell surface receptor complexes. The functional high-affinity receptor for IL-2 is composed of three distinct polypeptide chains (5, 6).IL-2 stimulates the proliferation of thymocytes; stimulates the proliferation and differentiation of activated B cells; promotes the growth, differentiation and cytotoxic activity of monocytes; induces the growth of and cytokine production and cytolytic activity by natural killer cells; enhances the production of lymphocyte-activated killer (LAK) cells; and induces the proliferation and differentiation of oligodendrocytes (1, 2). |
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NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 4029234                |
| NCBI GeneID                      | 3558                   |
| UniProt Accession #              | O95974; P60568         |
| Molecular Weight                 | 4,762 Da               |
| NCBI Official Full Name          | IL-2, partial          |
| NCBI Official Synonym Full Names | interleukin 2          |
| NCBI Official Symbol             | IL2                    |
| NCBI Official Synonym Symbols    | IL-2; TCGF; lymphokine |
| NCBI Protein Information         | interleukin-2          |
| UniProt Protein Name             | IL-2 protein           |
| UniProt Gene Name                | IL-2                   |

**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.