

## Human Interleukin 4 ELISA Kit | IL-4 elisa kit

Human Interleukin 4 ELISA Kit

CATALOG #  
**AAA101114**

REACTIVITY  
**Human**

### PRODUCT SYNONYMS

Interleukin 4; Human Interleukin 4 ELISA Kit; IL-4 (Interleukin 4)/IL4/BCGF-1/BCGF1/BSF-1/BSF1; IL-4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                     |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of IL-2. No significant cross-reactivity or interference between IL-2 and analogues was observed.                                 |
| Sequence Length         | 153                                                                                                                                                                                                       |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                           |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                      |
| Detection Range         | 31.25-2000pg/ml                                                                                                                                                                                           |
| Sensitivity             | 18.75pg/ml                                                                                                                                                                                                |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL-2 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL-2 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                              |

### IMAGES

#### Typical Data & Standard Curve

Results of a typical standard run of a IL-4 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

| X | pg/ml | 0     | 31.25 | 62.5  | 125   | 250   | 500   | 1000 | 2000  |
|---|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Y | OD450 | 0.072 | 0.104 | 0.148 | 0.244 | 0.429 | 0.864 | 1.42 | 2.233 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for IL-4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-2 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-2 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL-2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-2 can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 4504669                          |
| NCBI GeneID                      | 3565                             |
| NCBI Accession #                 | NP_000580.1                      |
| NCBI GenBank Nucleotide #        | NM_000589.3                      |
| Molecular Weight                 | 15,797 Da                        |
| NCBI Official Full Name          | interleukin-4 isoform 1          |
| NCBI Official Synonym Full Names | interleukin 4                    |
| NCBI Official Symbol             | IL4                              |
| NCBI Official Synonym Symbols    | BSF1; IL-4; BCGF1; BSF-1; BCGF-1 |
| NCBI Protein Information         | interleukin-4                    |
| UniProt Protein Name             | Interleukin-4                    |
| UniProt Gene Name                | IL4                              |
| UniProt Synonym Gene Names       | IL-4; BSF-1                      |
| UniProt Entry Name               | IL4_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.

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Online datasheet: <https://stage.aaabiotech.com/il-4-human-elisa-kits/interleukin-4/101114>