

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

IL-4 Human ELISA Kit

|                              |                            |                              |
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| CATALOG #<br><b>AAA58983</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------------|------------------------------|

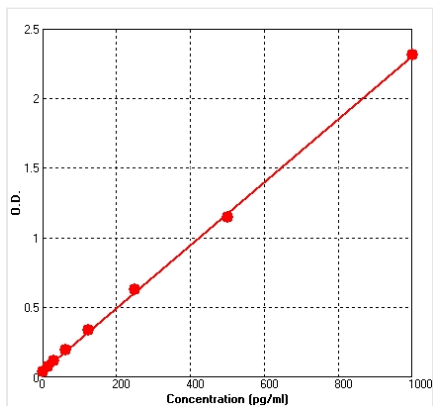
### PRODUCT SYNONYMS

IL-4; IL-4 Human ELISA Kit; Human IL-4; IL-4 elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| Reactivity                                 | Human                                                                |
| Assay Type                                 | Sandwich                                                             |
| Detection Range                            | 15.6 pg/ml-1000 pg/ml                                                |
| Sensitivity                                | < 1.5pg/ml                                                           |
| Applicable Applications for IL-4 elisa kit | ELISA                                                                |
| Preparation and Storage                    | Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Related Product Information for IL-4 elisa kit | <p><b>Principle of the Assay:</b> This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-4 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-4 polyclonal 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. Avidin-Biotin-Peroxidase Complex 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-4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-4 can be calculated.</p> <p><b>Background:</b> Interleukin-4(IL-4) is an 18-kD glycoprotein, it has 4 exons and is approximately 10 kb. It has a compact, globular fold, stabilised by 3 disulphide bonds. One half of the structure is dominated by a 4 alpha-helix bundle with a left-handed twist. It has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation B cells into Plasma Cells, and it is a key regulator in humoral and adaptive immunity. IL-4 also has been shown to drive mitogenesis, dedifferentiation, and metastasis in rhabdomyosarcoma.</p> |
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NCBI AND UNIPROT INFORMATION

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| NCBI GI #                  | 55742622                                                                                 |
| NCBI GeneID                | 397225                                                                                   |
| NCBI Accession #           | NP_999288.1                                                                              |
| NCBI GenBank Nucleotide #  | NM_214123.1                                                                              |
| UniProt Accession #        | Q04745; Q29054; Q8MKE6                                                                   |
| Molecular Weight           | 15,023 Da                                                                                |
| NCBI Official Full Name    | interleukin-4                                                                            |
| NCBI Official Symbol       | IL4                                                                                      |
| NCBI Protein Information   | interleukin-4; IL-4; BSF-1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1 |
| UniProt Protein Name       | Interleukin-4                                                                            |
| UniProt Gene Name          | IL4                                                                                      |
| UniProt Synonym Gene Names | IL-4; BSF-1                                                                              |
| UniProt Entry Name         | IL4_PIG                                                                                  |

**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/human-elisa-kits/il-4/58983>