

## Rat IL-10 ELISA Kit | IL-10 elisa kit

IL-10 Rat ELISA Kit

|                              |                          |                              |
|------------------------------|--------------------------|------------------------------|
| CATALOG #<br><b>AAA13482</b> | REACTIVITY<br><b>Rat</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|--------------------------|------------------------------|

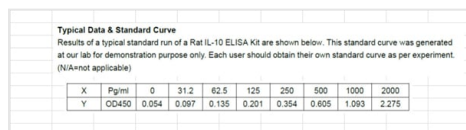
### PRODUCT SYNONYMS

IL-10; IL-10 Rat ELISA Kit; Rat IL-10; IL-10 elisa kit

### PRODUCT SPECIFICATIONS

|                                             |                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                  | Rat                                                                                                                                                                             |
| Specificity                                 | This assay has high sensitivity and excellent specificity for detection of humanin. No significant cross-reactivity or interference between humanin and analogues was observed. |
| Assay Type                                  | Sandwich                                                                                                                                                                        |
| Samples                                     | Rat serum, body fluids, tissue lysates or cell culture supernatants                                                                                                             |
| Sensitivity                                 | < 4 pg/ml                                                                                                                                                                       |
| Applicable Applications for IL-10 elisa kit | ELISA                                                                                                                                                                           |
| Application Notes                           | For quantitative detection of IL-10 in rat serum, body fluids, tissue lysates or cell culture supernatants.                                                                     |
| 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

#### Related Product Information for IL-10 elisa kit

**Background:** Interleukin-10 (IL-10 or IL10) also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans, IL-10 is encoded by the IL10 gene, which is located on chromosome 1 and comprises 5 exons. The IL-10 protein is a homodimer, each of its subunits is 178-amino-acid long. It is primarily produced by monocytes. IL-10 is a cytokine with pleiotropic effects in immunoregulation and inflammation. It could downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production.

**Principle of the Assay:** This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-10 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-10 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-10 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-10 can be calculated.

NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 21492460    |
| NCBI GeneID               | 944684      |
| NCBI Accession #          | NP_659579.1 |
| NCBI GenBank Nucleotide # | NC_004002.1 |
| NCBI Official Full Name   | IL-10       |
| NCBI Official Symbol      | SPPV_03     |
| NCBI Protein Information  | IL-10       |

**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/rat-elisa-kits/il-10/13482>