

## IL-12 elisa kit

Rat IL-12(P70) PicoKine ELISA Kit

|                               |                                                                                                   |                              |
|-------------------------------|---------------------------------------------------------------------------------------------------|------------------------------|
| CATALOG #<br><b>AAA124884</b> | REACTIVITY<br><b>Rat</b><br>There is no detectable cross-reactivity with other relevant proteins. | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|---------------------------------------------------------------------------------------------------|------------------------------|

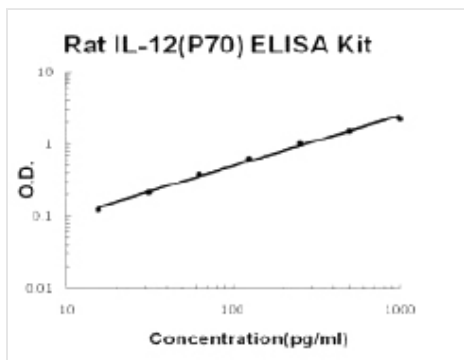
### PRODUCT SYNONYMS

IL-12; Rat IL-12(P70) PicoKine ELISA Kit; Interleukin-12 subunit alpha; IL-12A; Cytotoxic lymphocyte maturation factor 35 kDa subunit; CLMF p35; IL-12 subunit p35; IL12a; IL-12 elisa kit

### PRODUCT SPECIFICATIONS

|                                             |                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                  | Rat<br>There is no detectable cross-reactivity with other relevant proteins.                                                                          |
| Specificity                                 | Natural and recombinant Rat IL-12(P70)                                                                                                                |
| Sequence Length                             | 215                                                                                                                                                   |
| Assay Type                                  | Quantitative Sandwich                                                                                                                                 |
| Detection Range                             | 15.6pg/ml-1000pg/ml                                                                                                                                   |
| Sensitivity                                 | <1.5pg/ml                                                                                                                                             |
| Applicable Applications for IL-12 elisa kit | ELISA                                                                                                                                                 |
| Intra-assay Precision                       | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision       |
| Inter-assay Precision                       | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage                     | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                                   |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for IL-12 elisa kit | <p>Principle of the Assay: Rat IL-12(P70) ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-12(P70) has been precoated onto 96-well plates. Standards(Expression system for standard: sf21, Immunogen sequence: (M23-S335)+(R23-S215)) and test samples are added to the wells, a biotinylated detection biotinylated polyclonal antibody from goat specific for IL-12(P70) is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 Rat IL-12(P70) amount of sample captured in plate.</p> <p>Background: Interleukin (IL)-12 is a 70-KDa cytokine comprised of two disulfide-linked proteins (p35 and p40) and is essential for the initiation of effective immune response. And the IL-12p70 is a heterodimer of p35 and p40 subunits; it is an important cytokine secreted by antigen-presenting cells in response to antigenic stimulation. Gene expression analysis of the IL-12 cytokine family subunits revealed that both strains induced high levels of p40 (protein chain communal to IL-12 p70 and IL-23) as well as p19, a subunit of IL-23. Conversely only ACT- 18HS19 infection induced consistent transcription of IL-12 p35, a subunit of IL-12 p70. The standard product used in this kit is recombinant rat IL-12 p70 comprising of a 193 amino acids p35 chain and a 313 amino acids p40 chain connected by a disulfide bond.</p> |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                              |
|----------------------------------|------------------------------|
| NCBI GI #                        | 16758120                     |
| NCBI GeneID                      | 84405                        |
| NCBI Accession #                 | NP_445842.1                  |
| NCBI GenBank Nucleotide #        | NM_053390.1                  |
| UniProt Accession #              | Q9R103                       |
| Molecular Weight                 | 24,246 Da                    |
| NCBI Official Full Name          | interleukin-12 subunit alpha |
| NCBI Official Synonym Full Names | interleukin 12A              |
| NCBI Official Symbol             | IL12a                        |
| NCBI Protein Information         | interleukin-12 subunit alpha |
| UniProt Protein Name             | Interleukin-12 subunit alpha |
| UniProt Gene Name                | IL12a                        |
| UniProt Synonym Gene Names       | IL-12A; CLMF p35             |

**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.