

## Bovine Interleukin 3 (IL3) ELISA Kit | IL3 elisa kit

Bovine Interleukin 3 (IL3) ELISA Kit

CATALOG #  
**AAA190235**

REACTIVITY  
**Bovine**

### PRODUCT SYNONYMS

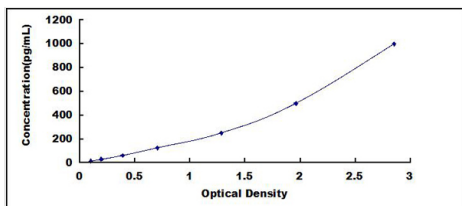
Interleukin 3 (IL3); Bovine Interleukin 3 (IL3) ELISA Kit; IL3 ELISA kit (Bovine); Interleukin 3; MCGF; MULTI-CSF; MCSF; M-CSF; Multiple; Multilineage-Colony-Stimulating Factor; Hematopoietic Growth Factor; P-Cell Stimulating Factor; Mast-Cell Growth Factor; IL3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of Interleukin 3 (IL3). No significant cross-reactivity or interference between Interleukin 3 (IL3) and analogues was observed.<br>Reactive with Bovine IL3/Interleukin 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Assay Type              | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Tissue homogenates, Cell lysates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Detection Range         | 15.6-1,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sensitivity             | 5.5pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sample Size             | 100uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Detection Method        | Colormetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Featured Series         | SE kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precision               | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Interleukin 3 (IL3) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Interleukin 3 (IL3) were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%, Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Function                | Detects protein (regular version)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Assay Procedure Summary | <ol style="list-style-type: none"> <li>1. Prepare all reagents, samples and standards</li> <li>2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C</li> <li>3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C</li> <li>4. Aspirate and wash 3 times</li> <li>5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C</li> <li>6. Aspirate and wash 5 times</li> <li>7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C</li> <li>8. Add 50ul Stop Solution. Read at 450nm immediately.</li> </ol>                                                                                                                                                                                                                                                                                                                                                   |
| Test Principle          | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Interleukin 3 (IL3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Interleukin 3 (IL3). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Interleukin 3 (IL3), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Interleukin 3 (IL3) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |

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| Research Area           | Cytokine, Infection immunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage | Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)<br>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

## IMAGES



Standard Curve (Sample)

## NCBI AND UNIPROT INFORMATION

|                            |               |
|----------------------------|---------------|
| NCBI GI #                  | 27806877      |
| NCBI GeneID                | 280823        |
| NCBI Accession #           | NP_776345.1   |
| NCBI GenBank Nucleotide #  | NM_173920.2   |
| UniProt Accession #        | P49875        |
| Molecular Weight           | 16,380 Da     |
| NCBI Official Full Name    | interleukin-3 |
| NCBI Official Symbol       | IL3           |
| NCBI Protein Information   | interleukin-3 |
| UniProt Protein Name       | Interleukin-3 |
| UniProt Gene Name          | <b>IL3</b>    |
| UniProt Synonym Gene Names | IL-3; MCGF    |

**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/bovine-ovine-elisa-kits/interleukin-3-il3/190235>