

## Mouse IL17A/IL-17A/IL17 ELISA Kit | IL17A/IL-17A/IL17 elisa kit

Mouse IL17A/IL-17A/IL17 ELISA Kit

CATALOG #  
**AAA258494**

REACTIVITY  
**Mouse**

### PRODUCT SYNONYMS

IL17A/IL-17A/IL17; Mouse IL17A/IL-17A/IL17 ELISA Kit; IL17 ELISA Kit; Mouse; interleukin 17A; Ctl $\alpha$ -8 ELISA Kit; Ctl $\alpha$ 8 ELISA Kit; IL-17 ELISA Kit; IL-17A ELISA Kit; IL17 ELISA Kit; IL17A/IL-17A/IL17 elisa kit

### PRODUCT SPECIFICATIONS

|                    |                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity         | Mouse                                                                                                                                                                                                                                                                                                                                     |
| Specificity        | For the quantitative determination of Mouse IL17A/IL-17A/IL17 concentration in cell culture supernates.                                                                                                                                                                                                                                   |
| Assay Type         | Solid Phase Sandwich ELISA (quantitative)                                                                                                                                                                                                                                                                                                 |
| Sample Types       | Cell supernatant                                                                                                                                                                                                                                                                                                                          |
| Detection Range    | 23.44-1500pg/mL                                                                                                                                                                                                                                                                                                                           |
| Sensitivity        | 13.78pg/mL                                                                                                                                                                                                                                                                                                                                |
| Conjugation        | HRP                                                                                                                                                                                                                                                                                                                                       |
| Interference       | Preparations of the factors listed below at 50ng/mL in a mid-range recombinant mouse IL17A control were assayed for interference. No significant interference was observed.                                                                                                                                                               |
| Materials Provided | <ol style="list-style-type: none"> <li>1. 96 well microplate coated with Capture Antibody</li> <li>2. Detection Antibody conjugated to HRP</li> <li>3. Standards</li> <li>4. Wash Buffer Concentrate</li> <li>5. Dilution Buffer Concentrate</li> <li>6. Color Reagent A</li> <li>7. Color Reagent B</li> <li>8. Stop Solution</li> </ol> |

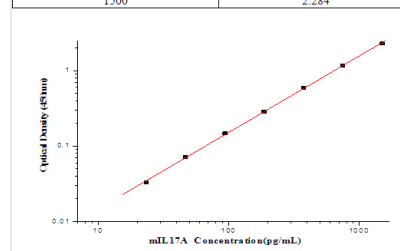
### IMAGES

|                   |       |       |       |
|-------------------|-------|-------|-------|
| Recombinant human |       |       |       |
| IL17A             | IL17C | IL17F |       |
| Recombinant mouse |       |       |       |
| IL2               | IL6   | IL17B | IL17F |
| IL23              |       |       |       |
| Recombinant rat   |       |       |       |
| IL17F             |       |       |       |

#### Application Data

This assay recognizes both recombinant and natural Mouse IL17A. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

| Concentration (pg/mL) | Zero standard subtracted OD |
|-----------------------|-----------------------------|
| 0                     | 0.000                       |
| 23.44                 | 0.033                       |
| 46.88                 | 0.072                       |
| 93.75                 | 0.147                       |
| 187.5                 | 0.287                       |
| 375                   | 0.594                       |
| 750                   | 1.162                       |
| 1500                  | 2.284                       |



#### Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for IL17A/IL-17A/IL17 elisa kit | <p>This IL17 ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IL17 protein in Cell supernatant. It contains recombinant Mouse IL17, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use.</p> <p>Background: IL17, also known as IL17a, is a cytokine that belongs to the IL-17 family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. The IL-17 family of cytokines includes six members, IL-17/IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F, which are produced by multiple cell types. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis, and multiple sclerosis.</p> |
| References                                                  | <p>Andoh A, et al. (2002) IL-17 selectively down-regulates TNF-alpha-induced RANTES gene expression in human colonic subepithelial myofibroblasts. J Immunol. 169(4):1683-7.</p> <p>Kotake S, et al. (1999) IL-17 in synovial fluids from patients with rheumatoid arthritis is a potent stimulator of osteoclastogenesis. J Clin Invest. 103(9):1345-52.</p> <p>Laan M, et al. (1999) Neutrophil recruitment by human IL-17 via C-X-C chemokine release in the airways. J Immunol. 162(4):2347-52.</p> <p>Shin HC, et al. (1999) Regulation of IL-17, IFN-gamma and IL-10 in human CD8(+) T cells by cyclic AMP-dependent signal transduction pathway. Cytokine. 10(11):841-50.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**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.