

## Human IL-10 Antibody Pair Set

**Catalog No.** E-KAB-0040

**Applications**

ELISA

**Synonyms** IL10, IL10A, CSIF, TGIF

### Kit components & Storage

| Title                                      | Specifications | Storage   |
|--|----------------|---|
| Human IL-10 Capture Antibody               | 1 vial, 100 µg | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |
| Human IL-10 Detection Antibody<br>(Biotin) | 1 vial, 50 µL  | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

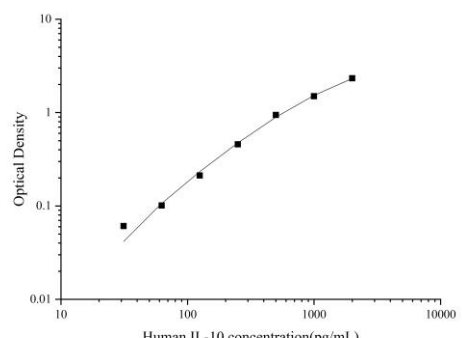
### Product Information

| Items                 |               | Characteristic (E-KAB-0040)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Human IL-10 Capture Antibody                     | Human IL-10 Detection Antibody<br>(Biotin)                              |
| Immunogen Information | Immunogen     | Recombinant Human IL-10 protein                  | Recombinant Human IL-10 protein   |
|                       | Swissprot     | P22301   |   |
| Product details       | Reactivity    | Human  | Human   |
|                       | Host          | Mouse  | Goat  |
|                       | Conjugation   | Unconjugated                                     | Biotin  |
|                       | Concentration | 0.5mg/mL   | /   |
|                       | Buffer        | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
|                       | Purify        | Protein A or G                                   | Antigen Affinity  |
|                       | Specificity   | Detects Human IL-10 in ELISAs.                   |   |

### For Research Use Only

## Applications

### Human IL-10 Sandwich ELISA Assay:

|                                   | Recommended Concentration/Dilution | Reagent                                 | Images  |                                   |                 |    |      |     |     |      |     |       |     |
|-----------------------------------|------------------------------------|---|---|-----------------------------------|-----------------|----|------|-----|-----|------|-----|-------|-----|
| ELISA Capture                     | 0.5-4µg/mL                         | Human IL-10 Capture Antibody            |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human IL-10 concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>10</td><td>0.05</td></tr><tr><td>100</td><td>0.2</td></tr><tr><td>1000</td><td>1.0</td></tr><tr><td>10000</td><td>5.0</td></tr></tbody></table> | Human IL-10 concentration (pg/mL) | Optical Density | 10 | 0.05 | 100 | 0.2 | 1000 | 1.0 | 10000 | 5.0 |
| Human IL-10 concentration (pg/mL) | Optical Density                    |   |   |                                   |                 |    |      |     |     |      |     |       |     |
| 10                                | 0.05                               |   |   |                                   |                 |    |      |     |     |      |     |       |     |
| 100                               | 0.2                                |   |   |                                   |                 |    |      |     |     |      |     |       |     |
| 1000                              | 1.0                                |   |   |                                   |                 |    |      |     |     |      |     |       |     |
| 10000                             | 5.0                                |   |   |                                   |                 |    |      |     |     |      |     |       |     |
| ELISA Detection                   | 1:1000-1:10000                     | Human IL-10 Detection Antibody (Biotin) |   |                                   |                 |    |      |     |     |      |     |       |     |

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

Interleukin (IL)-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It 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. IL-10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL-10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

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