

## Human IL-29 Antibody Pair Set

|                    |   |                     |       |
|--------------------|---|---------------------|-------|
| <b>Catalog No.</b> | E-KAB-0232  | <b>Applications</b> | ELISA |
| <b>Synonyms</b>    | IFNL1, IL-29, IL29, interferon, lambda 1, interferon lambda 1 |                     |       |

### Kit components & Storage

| Title                                   | Specifications | Storage   |
|---|----------------|---|
| Human IL-29 Capture Antibody            | 1 vial, 100 µg | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |
| Human IL-29 Detection Antibody (Biotin) | 1 vial, 50 µL  | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |

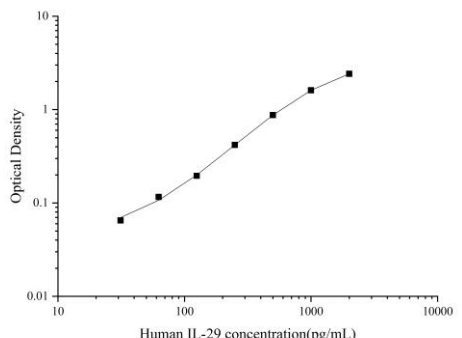
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

| Items                 |               | Characteristic (E-KAB-0232)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Human IL-29 Capture Antibody                     | Human IL-29 Detection Antibody (Biotin)                                 |
| Immunogen Information | Immunogen     | Recombinant Human IL-29 protein                  | Recombinant Human IL-29 protein   |
|                       | Swissprot     | Q8IU54   |   |
| Product details       | Reactivity    | Human  | Human   |
|                       | Host          | Mouse  | Mouse   |
|                       | 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  | Protein A   |
|                       | Specificity   | Detects Human IL-29 in ELISAs.                   |   |

## Applications

### Human IL-29 Sandwich ELISA Assay:

|                                   | Recommended Concentration/Dilution | Reagent                                 | Images   |                                   |                 |    |      |     |     |      |     |       |     |
|-----------------------------------|------------------------------------|---|--|-----------------------------------|-----------------|----|------|-----|-----|------|-----|-------|-----|
| ELISA Capture                     | 0.5-4µg/mL                         | Human IL-29 Capture Antibody            |  <p>The graph displays a standard curve for Human IL-29 concentration. The x-axis represents Human IL-29 concentration in pg/mL on a logarithmic scale from 10 to 10000. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human IL-29 increases, the optical density also increases.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IL-29 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-29 concentration (pg/mL) | Optical Density | 10 | 0.05 | 100 | 0.2 | 1000 | 1.0 | 10000 | 5.0 |
| Human IL-29 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-29 Detection Antibody (Biotin) |  |                                   |                 |    |      |     |     |      |     |       |     |

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

## Background

Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.