Human IL-2 ELISA Kit ab100566

Overview

Product name: Human IL-2 ELISA Kit
Detection method: Colorimetric
Sample type: Cell culture supernatant, Plasma
Assay type: Sandwich (quantitative)
Sensitivity: < 4 pg/ml
Range: 2.07 pg/ml - 1500 pg/ml
Recovery: 95%

Sample specific recovery

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell culture supernatant</td>
<td>96.27</td>
<td>84% - 103%</td>
</tr>
<tr>
<td>Plasma</td>
<td>95.52</td>
<td>83% - 103%</td>
</tr>
</tbody>
</table>

Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Human

Product overview

Human IL-2 ELISA kit is designed for the quantitative measurement of Human IL-2 in plasma, and cell culture supernatants. (Human IL-2 concentration is pretty low in normal plasma, it may not be detected in this assay).

This assay employs an antibody specific for Human IL-2 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL-2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human IL-2 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL-2 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

We have not been able to detect endogenous Human IL-2 in normal serum with ab100566, only in serum spiked with Human IL-2.

Get results in 90 minutes with Human IL-2 ELISA Kit (ab174444) from our SimpleStep ELISA®
range.

**Notes**
Optimization may be required with urine samples.

**Platform**
Microplate

**Properties**

**Storage instructions**
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>400X HRP-Streptavidin Concentrate</td>
<td>1 x 200µl</td>
</tr>
<tr>
<td>5X Assay Diluent B</td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>Assay Diluent A</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>Biotinylated anti-Human IL-2</td>
<td>2 vials</td>
</tr>
<tr>
<td>IL-2 Microplate (12 x 8 wells)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Recombinant Human IL-2 Standard (lyophilized)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>TMB One-Step Substrate Reagent</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Function**
Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.

**Involvement in disease**
Note=A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17.

**Sequence similarities**
Belongs to the IL-2 family.

**Cellular localization**
Secreted.

**Images**
Representative standard curve using ab100566

Typical standard curve

Representative standard curve using ab100566

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