**Product datasheet**

**Human IL-10 ELISA Kit ab46034**

**Overview**

**Product name**
Human IL-10 ELISA Kit

**Detection method**
Colorimetric

**Precision**

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>sample</td>
<td>6</td>
<td></td>
<td></td>
<td>3.2%</td>
</tr>
</tbody>
</table>

**Intra-assay**

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>sample</td>
<td>6</td>
<td></td>
<td></td>
<td>7.3%</td>
</tr>
</tbody>
</table>

**Inter-assay**

**Sample type**
Cell culture supernatant, Serum, Plasma

**Assay type**
Sandwich (quantitative)

**Sensitivity**
< 5 pg/ml

**Range**
12.5 pg/ml - 400 pg/ml

**Recovery**
111%

**Assay time**
2h 40m

**Assay duration**
Multiple steps standard assay

**Species reactivity**
Reacts with: Human

**Product overview**

Abcam’s IL-10 Human *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of IL-10 in supernatants, buffered solutions, serum and plasma samples.

A monoclonal antibody specific for IL-10 has been coated onto the wells of the microtiter strips provided. Samples, including standards of known IL-10 concentrations, control specimens or unknowns are pipetted into these wells. During the first incubation, the standards or samples and a biotinylated monoclonal antibody specific for IL-10 are simultaneously incubated. After washing, the enzyme Streptavidin-HRP, that binds the biotinylated antibody is added, incubated and washed. A TMB substrate solution is added which acts on the bound enzyme to induce a colored reaction product. The intensity of this colored product is directly proportional to the concentration of IL-10 present in the samples.
This kit will recognize both endogenous and recombinant Human IL-10.

Get results in 90 minutes with Human IL-10 ELISA Kit (ab185986) from our SimpleStep ELISA® range.

### Platform
Microplate

### Properties

#### Storage instructions
Store at +4°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>1 x 96 tests</th>
<th>2 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X Standard Diluent Buffer</td>
<td>Black</td>
<td>1 x 25ml</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>200X Wash Buffer</td>
<td>White</td>
<td>1 x 10ml</td>
<td>2 x 10ml</td>
</tr>
<tr>
<td>Biotinylated anti IL-10</td>
<td>Red</td>
<td>1 x 400µl</td>
<td>2 x 400µl</td>
</tr>
<tr>
<td>Biotinylated Antibody Diluent</td>
<td>Red</td>
<td>1 x 7.5ml</td>
<td>1 x 13ml</td>
</tr>
<tr>
<td>Chromogen TMB Substrate Solution</td>
<td></td>
<td>1 x 11ml</td>
<td>1 x 24ml</td>
</tr>
<tr>
<td>Control</td>
<td>Silver</td>
<td>2 vials</td>
<td>4 vials</td>
</tr>
<tr>
<td>HRP Diluent</td>
<td>Red</td>
<td>1 x 23ml</td>
<td>1 x 23ml</td>
</tr>
<tr>
<td>IL-10 Microplate (12 x 8 well strips)</td>
<td></td>
<td>1 unit</td>
<td>2 units</td>
</tr>
<tr>
<td>IL-10 Standard (Lyophilized)</td>
<td>Yellow</td>
<td>2 vials</td>
<td>4 vials</td>
</tr>
<tr>
<td>Plastic Plate Covers</td>
<td></td>
<td>1 x 2 units</td>
<td>2 x 2 units</td>
</tr>
<tr>
<td>Standard Diluent (Serum)</td>
<td></td>
<td>1 x 7ml</td>
<td>2 x 7ml</td>
</tr>
<tr>
<td>Stop Reagent</td>
<td>Black</td>
<td>1 x 11ml</td>
<td>2 x 11ml</td>
</tr>
<tr>
<td>Streptavidin-HRP</td>
<td></td>
<td>2 x 5µl</td>
<td>4 x 5µl</td>
</tr>
</tbody>
</table>

#### Function
Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells.

#### Tissue specificity
Produced by a variety of cell lines, including T-cells, macrophages, mast cells and other cell types.

#### Sequence similarities
Belongs to the IL-10 family.

#### Cellular localization
Secreted.

#### Images
IL-10 detected in supernatants from control cells (C) or cells stimulated for 24 hours with 50 ng x mL\(^{-1}\) of PMA (ab120297), with the addition of 1 ug x mL\(^{-1}\) of LPS (Sigma) (P/L) for the last 6 hours. PBMCs were stimulated for 48 hours with 2 % PHA-M (LifeTechnologies). Results shown after background signal was subtracted (duplicates +/- SD).

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