Human IL-8 ELISA Kit ab46032

Overview

Product name: Human IL-8 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>Pooled Data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample 1</td>
<td>18</td>
<td>1682pg/ml</td>
<td>152</td>
<td>9%</td>
</tr>
<tr>
<td>Sample 2</td>
<td>18</td>
<td>1004pg/ml</td>
<td>111</td>
<td>11%</td>
</tr>
<tr>
<td>Sample 3</td>
<td>18</td>
<td>768pg/ml</td>
<td>69</td>
<td>8.9%</td>
</tr>
<tr>
<td>Sample 4</td>
<td>18</td>
<td>1497pg/ml</td>
<td>149</td>
<td>9.9%</td>
</tr>
<tr>
<td>Sample 5</td>
<td>18</td>
<td>880pg/ml</td>
<td>83</td>
<td>9.4%</td>
</tr>
</tbody>
</table>

Sample type: Cell culture supernatant, Serum, Plasma
Assay type: Sandwich (quantitative)
Sensitivity: ＜25 pg/ml
Range: 62.5 pg/ml - 2000 pg/ml
Recovery: 88%
Assay time: 1h 40m
Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Human

Product overview: Abcam's IL-8 Human in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of IL-8 supernatants, buffered solutions, serum and plasma samples. (Genecards: CXCL8)
A monoclonal antibody specific for IL-8 has been coated onto the wells of the microtiter strips provided. Samples, including standards of known IL-8 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-8 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-8 present in the samples.

This kit will recognize both endogenous and recombinant Human IL-8.

Tested applications Suitable for: Sandwich ELISA

Platform Microplate

Properties

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

**Components**

<table>
<thead>
<tr>
<th>Identifier</th>
<th>1 x 96 tests</th>
<th>2 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>1 x 25ml</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>White</td>
<td>1 x 10ml</td>
<td>2 x 10ml</td>
</tr>
<tr>
<td>Red</td>
<td>1 x 7.5ml</td>
<td>1 x 13ml</td>
</tr>
<tr>
<td>Red</td>
<td>1 x 0.4ml</td>
<td>2 x 0.4ml</td>
</tr>
<tr>
<td>Red</td>
<td>1 x 11ml</td>
<td>1 x 24ml</td>
</tr>
<tr>
<td>Red</td>
<td>1 x 23ml</td>
<td>1 x 23ml</td>
</tr>
<tr>
<td>Silver</td>
<td>2 vials</td>
<td>4 vials</td>
</tr>
<tr>
<td>1 unit</td>
<td>2 units</td>
<td>4 units</td>
</tr>
<tr>
<td>2 vials</td>
<td>4 vials</td>
<td></td>
</tr>
<tr>
<td>1 unit</td>
<td>2 units</td>
<td></td>
</tr>
<tr>
<td>2 vials</td>
<td>4 vials</td>
<td></td>
</tr>
<tr>
<td>1 x 7ml</td>
<td>2 x 7ml</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>1 x 11ml</td>
<td>2 x 11ml</td>
</tr>
<tr>
<td>2 x 5µl</td>
<td>4 x 5µl</td>
<td></td>
</tr>
</tbody>
</table>

**Function**

IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively.

**Sequence similarities**

Belongs to the intercrine alpha (chemokine CxC) family.
Post-translational modifications
Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least peripheral blood monocytes, leukocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most prominent form.

Cellular localization
Secreted.

Applications
Our Abpromise guarantee covers the use of ab46032 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Images

Representative Standard Curve using ab46032

IL-8 detected in supernatants from control cells (C) or cells stimulated for 24 hours with 50 ng x mL\(^{-1}\) of PMA (ab120297) (P), and with the addition of 1 ug x mL\(^{-1}\) of LPS (Sigma) (P/L) for the last 6 hours. The positive control is included (Pos.). Results shown after background signal was subtracted (duplicates +/- SD).

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