Overview

Product name: Rat IL-6 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>Overall</td>
<td>6</td>
<td></td>
<td></td>
<td>&lt; 5%</td>
</tr>
</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>Overall</td>
<td>6</td>
<td></td>
<td></td>
<td>&lt; 10%</td>
</tr>
</tbody>
</table>

Sample type: Cell culture supernatant, Serum
Assay type: Sandwich (quantitative)
Sensitivity: 12 pg/ml
Range: 31 pg/ml - 2000 pg/ml
Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Rat

Product overview:

Abcam’s IL-6 rat ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of rat IL-6 in culture supernatant and serum.

Il-6 specific antibodies have been precoated onto 96-well plates. Standards and test samples are added to the wells along with a biotin-conjugated Il-6 detection antibody then incubated at room temperature. Following washing, a Streptavidin-HRP conjugate is added to each well, incubated at room temperature and washed. TMB is added and then catalyzed by HRP to produce a blue color product that changes into yellow after addition of acidic an stop solution. The density of yellow coloration is directly proportional to the amount of IL-6 captured on the plate.

Abcam is committed to meeting high quality standards of ethical manufacturing and has decided to discontinue this product by June 2020 as it contains antibodies generated by the ascites method. We are sorry for any inconvenience this may cause. We suggest...
**Platform**

Microplate

**Properties**

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

**Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Assay Buffer Concentrate</td>
<td>1 x 5ml</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>1 x 50ml</td>
</tr>
<tr>
<td>Adhesive Films</td>
<td>4 units</td>
</tr>
<tr>
<td>Biotin-Conjugate anti-rat IL-6 monoclonal antibody</td>
<td>1 x 70μl</td>
</tr>
<tr>
<td>IL-6 Standard lyophilized (4 ng/mL upon reconstitution)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Microplate coated with monoclonal antibody to rat IL-6 (12 x 8 wells)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Stop Solution (1M Phosphoric acid)</td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>Streptavidin-HRP</td>
<td>1 x 150μl</td>
</tr>
<tr>
<td>TMB Substrate Solution</td>
<td>1 x 15ml</td>
</tr>
</tbody>
</table>

**Function**
Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.

**Involvement in disease**
Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory arthritic disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.

**Sequence similarities**
Belongs to the IL-6 superfamily.

**Post-translational modifications**
N- and O-glycosylated.

**Cellular localization**
Secreted.

**Images**
Representative Standard Curve using ab119548.

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