**Product Datasheet**

**Canine IL-6 ELISA Kit ab193686**

**Overview**

**Product name**  
Canine 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></td>
<td></td>
<td></td>
<td>&lt; 10%</td>
</tr>
</tbody>
</table>

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

**Assay type**  
Sandwich (quantitative)

**Sensitivity**  
0.1 ng/ml

**Range**  
0.1 ng/ml - 25 ng/ml

**Recovery**

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td>79.27</td>
<td>68% - 90%</td>
</tr>
<tr>
<td>Plasma</td>
<td>78.06</td>
<td>69% - 91%</td>
</tr>
<tr>
<td>Cell culture media</td>
<td>108</td>
<td>99% - 118%</td>
</tr>
</tbody>
</table>

**Assay duration**  
Multiple steps standard assay

**Species Reactivity**  
Reacts with: Dog

**Product Overview**

Abcam’s IL-6 Canine ELISA Kit (ab193686) is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of canine IL-6 in serum, plasma and cell culture supernatant.

This assay employs an antibody specific for canine IL-6 coated on a 96-well plate. Standards and
samples are pipetted into the wells and the immobilized antibody captures IL-6 present in the samples. The wells are washed and biotinylated anti-canine IL-6 antibody is added. After washing away any unbound biotinylated antibody, an HRP-conjugated streptavidin is pipetted to the wells. After incubation, the wells are again washed, followed by the addition of a TMB substrate solution to the wells. Color will develop in proportion to the amount of IL-6 bound in each well. Addition of the Stop Solution will change the color from blue to yellow, and the intensity of the color is measured at 450 nm.

**Platform**
Pre-coated microplate (12 x 8 well strips)

**Properties**

<table>
<thead>
<tr>
<th>Storage instructions</th>
<th>Store at -20°C. Please refer to protocols.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>5X Assay Diluent B</td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>600X HRP-Streptavidin Concentrate</td>
<td>1 x 200μl</td>
</tr>
<tr>
<td>Assay Diluent A</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>Biotinylated canine IL-6 detection antibody (lyophilized)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Canine IL-6 Standards (lyophilized)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Pre-coated canine IL-6 microplate (12 strips x 8 wells)</td>
<td>1 unit</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**
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 cell 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 articular 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

Standard Curve in Assay Diluent A using ab193686 IL-6 Canine ELISA Kit.

Data provided for demonstration purposes only. A new standard curve must be generated for each assay performed.

Standard Curve in Assay Diluent B using ab193686 IL-6 Canine ELISA Kit.

Data provided for demonstration purposes only. A new standard curve must be generated for each assay performed.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards
If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors