Datasheet: PHP042

<table>
<thead>
<tr>
<th>Description:</th>
<th>RECOMBINANT HUMAN INTERLEUKIN-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>IL-2</td>
</tr>
<tr>
<td>Format:</td>
<td>Rec. Protein</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Recombinant Protein</td>
</tr>
<tr>
<td>Quantity:</td>
<td>50 µg</td>
</tr>
</tbody>
</table>

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td>0.2 - 0.4ng/well</td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>1.5 - 3.0ng/lane</td>
</tr>
<tr>
<td>Functional Assays</td>
<td></td>
<td></td>
<td></td>
<td>0.1ng/ml - 2.0ng/ml</td>
</tr>
</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Cynomolgus monkey, Rhesus Monkey, Dolphin

N.B. Antibody reactivity and working conditions may vary between species.

### Product Form

Purified protein produced in *E. coli* - lyophilised

### Reconstitution

Reconstitute with 0.5 ml 0.1M acetic acid. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

### Buffer Solution

10mM Sodium citrate

### Preservative Stabilisers

None present

### Endotoxin Level

< 0.1 ng/ug

### Approx. Protein Concentrations

Total protein concentration 0.1 mg/ml after reconstitution

### External Database Links

UniProt: [P60568](http://www.uniprot.org/uniprot/P60568) Related reagents
Product Information

**Recombinant human interleukin 2** is an *Escherichia coli*-derived recombinant protein corresponding to full-length mature human interleukin-2, a secreted peptide required for T-cell proliferation. This preparation has an ED50 of 0.1ng/ml as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells.

**Protein Molecular Weight**

15.4kDa (134 Amino acid sequence)

**Activity**

$1 \times 10^7$ units/mg

**Purity**

>98% by SDS PAGE and HPLC analysis

**ELISA**

Recombinant Rat interleukin-2 may be used as a standard for ELISA applications with Rat anti Human IL-2 antibody, clone MQ1-17H12 ([MCA1553](https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf)).

**Western Blotting**

Recombinant human IL-2 may be used as a positive control for Western Blotting applications using Rabbit anti Human IL-2 antibodies ([AAR38](https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf)) for detection.

**References**


**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

3 months from date of reconstitution.

**Health And Safety Information**
