

## Datasheet: PHP045

**BATCH NUMBER 165359**

<b>Description:</b>	RECOMBINANT HUMAN INTERLEUKIN-6
<b>Name:</b>	IL-6
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	20 µg

### Product Details

#### 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).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 10ng/ml

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.2ml distilled water. 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. DO NOT VORTEX. For long term storage the addition of 0.1% bovine serum albumin (BSA) is recommended.
<b>Preparation</b>	Recombinant protein expressed in <i>E. coli</i> .
<b>Source</b>	E.coli
<b>Buffer Solution</b>	10mM Sodium Phosphate
<b>Preservative Stabilisers</b>	None present.

<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug
<b>Approx. Protein Concentrations</b>	0.1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05231</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3569</a>    IL6    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IFNB2
<b>Product Information</b>	<b>Recombinant Human Interleukin-6 protein</b> produced in <i>E. coli</i> constitutes full length non-glycosylated human IL-6 and retain full biological activity. Interleukin-6 is a potent lymphoid cell growth factor, acting on B cells, T cells and hybridoma cells. The biological activity of this preparation was determined by its ability to stimulate the proliferation of mouse B9 cells.
<b>Protein Molecular Weight</b>	20.9 kDa (184 amino acids)
<b>Activity</b>	>1 x 10 <sup>7</sup> units/mg
<b>Purity</b>	>98% by SDS PAGE analysis and HPLC analysis
<b>ELISA</b>	Recombinant Human IL-6 ( <b>PHP045</b> ) may be used as a standard for ELISA applications with biotinylated Rabbit anti Human Interleukin-6 ( <a href="#">AHP1040B</a> ) for detection.
<b>Western Blotting</b>	Recombinant Human IL-6 may be used as the positive control for western blotting applications with Rabbit anti Human Interleukin-6 ( <a href="#">AHP1040</a> ) for detection.
<b>References</b>	1. Ban, S.A. <i>et al.</i> (2014) Combined immunodeficiency evolving into predominant CD4+ lymphopenia caused by somatic chimerism in JAK3. <a href="#">J Clin Immunol. 34 (8): 941-53.</a>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety  
Information**

Material Safety Datasheet documentation #10527 available at:  
<https://www.bio-rad-antibodies.com/SDS/PHP045>  
10527

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN INTERLEUKIN-6 \(AHP1040\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

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**Europe**

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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