

Datasheet: PHP045

Description:	RECOMBINANT HUMAN INTERLEUKIN-6
Name:	IL-6
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified recombinant protein - lyophilized
Reconstitution	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.
Preparation	Recombinant protein expressed in <i>E. coli</i> .
Source	E.coli
Buffer Solution	10mM Sodium Phosphate
Preservative Stabilisers	None present.

Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	0.1 mg/ml after reconstitution
External Database Links	<p>UniProt: P05231 Related reagents</p> <p>Entrez Gene: 3569 IL6 Related reagents</p>
Synonyms	IFNB2
Product Information	Recombinant Human Interleukin-6 protein 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.
Protein Molecular Weight	20.9 kDa (184 amino acids)
Activity	Determined by its ability to stimulate the proliferation of mouse B9 cells. The expected ED ₅₀ is ≤ 0.1 ng/ml corresponding to a specific activity of ≥ 1 x 10 ⁷ units/mg.
Purity	>98% by SDS PAGE analysis and HPLC analysis
ELISA	Recombinant Human IL-6 (PHP045) may be used as a standard for ELISA applications with biotinylated Rabbit anti Human Interleukin-6 (AHP1040B) for detection.
Western Blotting	Recombinant Human IL-6 may be used as the positive control for western blotting applications with Rabbit anti Human Interleukin-6 (AHP1040) for detection.
References	1. Ban, S.A. <i>et al.</i> (2014) Combined immunodeficiency evolving into predominant CD4+ lymphopenia caused by somatic chimerism in JAK3. J Clin Immunol. 34 (8): 941-53.
Storage	<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>
Guarantee	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 America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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