

Datasheet: PHP045

BATCH NUMBER 160722

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|----------------------|---------------------------------|
| 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.

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| 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> . |
| 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 | >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

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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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

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