

## Datasheet: PHP100

|                      |                                  |
|----------------------|----------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN INTERLEUKIN-12 |
| <b>Name:</b>         | IL-12                            |
| <b>Format:</b>       | Rec. Protein                     |
| <b>Product Type:</b> | Recombinant Protein              |
| <b>Quantity:</b>     | 10 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 - 0.4 ng/well  |
| Western Blotting  | ▪   |    |                | 1.5 - 3.0 ng/lane  |
| Functional Assays | ▪   |    |                | 0.1 - 10 ng/ml     |

Where this protein 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 positive/negative controls.

|                                 |  |
|---------------------------------|--|
| <b>Target Species</b>           | Human  |
| <b>Product Form</b>             | Purified recombinant protein - lyophilised   |
| <b>Reconstitution</b>           | <p>Reconstitute with 50ul sterile PBS. For extended storage, the addition of 0.1% bovine serum albumin is recommended.</p> <p>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.</p> |
| <b>Preparation</b>              | Purified recombinant Human Interleukin-12 expressed in Chinese Hamster Ovary (CHO) cells.  |
| <b>Buffer Solution</b>          | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b> | None present   |
| <b>Carrier Free</b>             | Yes  |

|                                       |  |
|---------------------------------------|--|
| <b>Endotoxin Level</b>                | < 0.1 ng/ug  |
| <b>Approx. Protein Concentrations</b> | 0.2 mg/ml after reconstitution   |
| <b>External Database Links</b>        | <p><b>UniProt:</b></p> <p><a href="#">P29460</a>     <a href="#">Related reagents</a></p> <p><a href="#">P29459</a>     <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">3593</a> IL12B   <a href="#">Related reagents</a></p> <p><a href="#">3592</a> IL12A   <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                       | NKSF1, NKSF2   |
| <b>Product Information</b>            | <p><b>Recombinant human Interleukin-12 (IL-12)</b> produced in CHO cells is a ~75 kDa glycoprotein comprised of disulfide-linked 35kDa (p35) and 40kDa (p40) subunits.</p> <p>IL-12 is produced by activated B lymphocytes and macrophages. The properties of IL-12 include the stimulation of growth of activated T lymphocytes, and actions in the development of Th1 CD4 +ve cells and CD8 +ve cytotoxic T cells. IL-12 also promotes activity and division of NK cells and promotes formation of TH1 cells producing &amp;gamma;-interferon.</p> |
| <b>Protein Molecular Weight</b>       | 75kDa (503 Amino acid sequence)  |
| <b>Purity</b>                         | >98% by SDS PAGE and HPLC analysis   |
| <b>ELISA</b>                          | Recombinant human IL-12 may be used as a standard for ELISA applications with either <a href="#">anti-human IL-12:purified</a> (AHP779) or <a href="#">anti-human IL-12:biotin conjugate</a> (AHP779B).  |
| <b>Western Blotting</b>               | Recombinant human IL-12 may be used as the positive control for western blotting applications with either <a href="#">anti-human IL-12:purified</a> (AHP779) or <a href="#">anti-human IL-12:biotin conjugate</a> (AHP779B).   |
| <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.  |
| <b>Health And Safety</b>              | Material Safety Datasheet documentation #10527 available at:   |

**Information** 10527: <https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf>

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**Regulatory** For research purposes only

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| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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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)  
'M362350:200501'

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