

## Datasheet: PHP050

<b>Description:</b>	RECOMBINANT HUMAN INTERFERON GAMMA
<b>Name:</b>	IFN GAMMA
<b>Other names:</b>	INTERFERON GAMMA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	0.1 mg

## 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 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 reagent for use in their own system using appropriate positive/negative controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Recombinant protein produced in <i>E. coli</i> - lyophilised.
<b>Reconstitution</b>	Reconstitute with 0.1ml 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.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	<0.1 ng/ug
<b>Approx. Protein Concentrations</b>	Total protein concentration 1.0mg/ml after reconstitution.

### External Database Links

#### UniProt:

[P01579](#) [Related reagents](#)

#### Entrez Gene:

[3458](#) IFNG [Related reagents](#)

<b>Product Information</b>	IFN-gamma is a lymphoid factor with anti viral activity and macrophage and NK cell stimulating properties.
<b>Protein Molecular Weight</b>	16.7kD (143 Amino Acid Sequence)
<b>Activity</b>	> 2 x 10 <sup>7</sup> units/mg
<b>Purity</b>	>98% by SDS PAGE and HPLC
<b>ELISA</b>	PHP050 may be used in ELISA applications with either <a href="#">AHP775</a> or <a href="#">AHP775B</a> .
<b>Western Blotting</b>	PHP050 may be used under reducing or non-reducing western blotting conditions with either <a href="#">AHP775</a> or <a href="#">AHP775B</a> .
<b>References</b>	<ol style="list-style-type: none"> <li>1. Grisar, J. <i>et al.</i> (2001) Phenotypic characteristics of human monocytes undergoing transendothelial migration. <a href="#">Arthritis Res. 3 (2): 127-32.</a></li> <li>2. Fros, J.J. <i>et al.</i> (2010) Chikungunya virus nonstructural protein 2 inhibits type I/II interferon-stimulated JAK-STAT signaling. <a href="#">J Virol. 84 (20): 10877-87.</a></li> <li>3. Hara, H. <i>et al.</i> (2011) Initial in vitro investigation of the human immune response to corneal cells from genetically engineered pigs. <a href="#">Invest Ophthalmol Vis Sci. 52: 5278-86.</a></li> <li>4. Wienken, C.J. <i>et al.</i> (2010) Protein-binding assays in biological liquids using microscale thermophoresis. <a href="#">Nat Commun. 1: 100.</a></li> <li>5. Bakmiwewa, S.M. <i>et al.</i> (2016) Synergistic induction of CXCL10 by interferon-gamma and lymphotoxin-alpha in astrocytes: Possible role in cerebral malaria. <a href="#">Cytokine. 78: 79-86.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°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>Shelf Life</b>	3 months from date of reconstitution
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10209 available at: 10209: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN INTERFERON GAMMA \(AHP775\)](#)

[RABBIT ANTI HUMAN INTERFERON GAMMA:Biotin \(AHP775B\)](#)

**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)

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