

## Datasheet: PMP43A

<b>Description:</b>	RECOMBINANT MOUSE 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>	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 - 1.0ng/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>	Mouse
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 20ul water. For extended storage the addition of 0.1% BSA 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.</p>
<b>Preparation</b>	Recombinant protein expressed in <i>Escherichia coli</i>
<b>Source</b>	E.coli
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present

Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	Total protein concentration 1.0mg/ml after reconstitution
External Database Links	<p><b>UniProt:</b>  <a href="#">P01580</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">15978</a>   Ifng   <a href="#">Related reagents</a></p>
Product Information	<b>Recombinant mouse interferon gamma</b> is an <i>E. coli</i> -derived recombinant protein corresponding to full-length mature murine interferon gamma, a regulatory cytokine, which is produced by activated natural killer cells and certain T-lymphocytes.
Protein Molecular Weight	15.1kDa as determined by mass spectroscopy.
Activity	>5 x 10 <sup>6</sup> units/mg as determined by ability to inhibit the proliferation of murine WEHI-279 cells.
Purity	>98% by SDS PAGE and HPLC
ELISA	PMP43A may be used as a standard in ELISA applications with <a href="#">AAM29</a>
Western Blotting	PMP43A may be used as a positive control in Western blotting applications with <a href="#">AAM29</a>
References	<ol style="list-style-type: none"> <li>1. Zhang, H. <i>et al.</i> (2011) Matrix metalloproteinase-9 and stromal cell-derived factor-1 act synergistically to support migration of blood-borne monocytes into the injured spinal cord. <a href="#">J Neurosci. 31: 15894-903.</a></li> <li>2. Wimmer, N. <i>et al.</i> (2012) Lymphotoxin β receptor activation on macrophages induces cross-tolerance to TLR4 and TLR9 ligands. <a href="#">J Immunol. 188 (7): 3426-33.</a></li> <li>3. Lam RS <i>et al.</i> (2016) Unprimed, M1 and M2 Macrophages Differentially Interact with <i>Porphyromonas gingivalis</i>. <a href="#">PLoS One. 11 (7): e0158629.</a></li> <li>4. Lestina, T. <i>et al.</i> (2015) <i>Phlebotomus papatasi</i> exposure cross-protects mice against <i>Leishmania major</i> co-inoculated with <i>Phlebotomus duboscqi</i> salivary gland homogenate. <a href="#">Acta Trop. 144: 9-18.</a></li> <li>5. Sumova, P. <i>et al.</i> (2020) <i>Phlebotomus perniciosus</i> Recombinant Salivary Proteins Polarize Murine Macrophages Toward the Anti-Inflammatory Phenotype. <a href="#">Front Cell Infect Microbiol. 10: 427.</a></li> </ol>
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</p>

as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

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<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.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PMP43A">https://www.bio-rad-antibodies.com/SDS/PMP43A</a> 10527
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[RABBIT ANTI MOUSE INTERFERON GAMMA \(AAM29\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 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 Fax: +44 (0)1865 852 739 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 Fax: +49 (0) 89 8090 95 50 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://bio-rad-antibodies.com/datasheets)  
'M433679:241118'

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