

## 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 - lyophilised
<b>Reconstitution</b>	Reconstitute with 20ul water. For extended storage the addition of 0.1% BSA is recommended. 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>Preparation</b>	Recombinant protein expressed in <i>Escherichia coli</i>
<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
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01580</a> <a href="#">Related reagents</a>

**Entrez Gene:**[15978](#) Ifng [Related reagents](#)

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**Product Information** **Recombinant mouse interferon gamma** is an *E. coli*-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.

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**Protein Molecular Weight** 15.6kD (134 amino acid sequence)

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**Activity** >5 x 10<sup>6</sup> units/mg as determined by ability to inhibit the proliferation of murine WEHI-279 cells.

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**Purity** >98% by SDS PAGE and HPLC

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**ELISA** PMP43A may be used as a standard in ELISA applications with [AAM29](#)

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**Western Blotting** PMP43A may be used as a positive control in Western blotting applications with [AAM29](#)

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**References**

1. Zhang, H. *et al.* (2011) Matrix metalloproteinase-9 and stromal cell-derived factor-1 act synergistically to support migration of blood-borne monocytes into the injured spinal cord. [J Neurosci. 31: 15894-903.](#)
2. Wimmer, N. *et al.* (2012) Lymphotoxin  $\beta$  receptor activation on macrophages induces cross-tolerance to TLR4 and TLR9 ligands. [J Immunol. 188 \(7\): 3426-33.](#)
3. Lam RS *et al.* (2016) Unprimed, M1 and M2 Macrophages Differentially Interact with Porphyromonas gingivalis. [PLoS One. 11 \(7\): e0158629.](#)
4. Lestinova, T. *et al.* (2015) *Phlebotomus papatasi* exposure cross-protects mice against *Leishmania major* co-inoculated with *Phlebotomus duboscqi* salivary gland homogenate. [Acta Trop. 144: 9-18.](#)

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**Storage** Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

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.

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**Shelf Life** 3 months from date of reconstitution.

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**Health And Safety Information** Material Safety Datasheet documentation #10527 available at: 10527: <https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

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

**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751

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