

Datasheet: PMP43A

Description:	RECOMBINANT MOUSE INTERFERON GAMMA
Name:	IFN GAMMA
Other names:	INTERFERON GAMMA
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 - 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.

Target Species	Mouse
Product Form	Purified recombinant protein - lyophilized
Reconstitution	<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>
Preparation	Recombinant protein expressed in <i>Escherichia coli</i>
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	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>UniProt: P01580 Related reagents</p> <p>Entrez Gene: 15978 Ifng Related reagents</p>
Product Information	Recombinant mouse interferon gamma 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 ⁶ 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 AAM29
Western Blotting	PMP43A may be used as a positive control in Western blotting applications with AAM29
References	<ol style="list-style-type: none"> 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. J Neurosci. 31: 15894-903. Wimmer, N. <i>et al.</i> (2012) Lymphotoxin β receptor activation on macrophages induces cross-tolerance to TLR4 and TLR9 ligands. J Immunol. 188 (7): 3426-33. Lam RS <i>et al.</i> (2016) Unprimed, M1 and M2 Macrophages Differentially Interact with <i>Porphyromonas gingivalis</i>. PLoS One. 11 (7): e0158629. Lestinova, 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. Acta Trop. 144: 9-18. Sumova, P. <i>et al.</i> (2020) <i>Phlebotomus perniciosus</i> Recombinant Salivary Proteins Polarize Murine Macrophages Toward the Anti-Inflammatory Phenotype. Front Cell Infect Microbiol. 10: 427.
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.

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/PMP43A>
10527

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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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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