



**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bxcell.com/terms-and-conditions/>.

**Lot Specific Information**

<b>Lot Number:</b>	Lot Specific*
<b>Volume:</b>	Lot Specific*
<b>Concentration:</b>	Lot Specific* (generally 4 to 11 mg/ml) *
<b>Total Protein:</b>	Lot Specific*

\*This information will be noted on the certificate of analysis that ships with this product.

**Product Information**

<b>Catalog Number:</b>	<b>BP0055</b>
<b>Clone:</b>	<b>XMG1.2</b>
<b>Isotype:</b>	Rat IgG1, $\kappa$
<b>Recommended Isotype Control(s):</b>	InVivoPlus rat IgG1 isotype control, anti-horseradish peroxidase
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 8.0T Dilution Buffer
<b>Immunogen:</b>	Recombinant mouse IFN $\gamma$ <i>in vivo</i> IFN $\gamma$ neutralization <i>in vitro</i> IFN $\gamma$ neutralization ELISPOT Flow cytometry Western blot
<b>Reported Applications:</b>	
<b>Formulation:</b>	PBS + 0.01% Tween, pH 8.0 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	<1EU/mg (<0.001EU/ $\mu$ g) Determined by LAL gel clotting assay
<b>Purity:</b>	>95% Determined by SDS-PAGE
<b>Sterility:</b>	0.2 $\mu$ M filtered
<b>Production:</b>	Purified from tissue culture supernatant in an animal free facility
<b>Purification:</b>	Protein G
<b>Aggregation:</b>	<5% Determined by DLS
<b>RRID:</b>	AB_1107694
<b>Molecular Weight:</b>	150 kDa

**Murine Pathogen Test Results**

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative,

**Description**

The XMG1.2 monoclonal antibody reacts with mouse IFN $\gamma$  (interferon gamma) a 20 kDa soluble pleiotropic cytokine and the sole member of the type II class of interferons. IFN $\gamma$  is primarily produced by activated lymphocytes including T, B, NK cells, and ILCs. IFN $\gamma$  exerts immunoregulatory, anti-proliferative, anti-viral, and proinflammatory activities and plays an important role in activation, growth, and differentiation of T and B lymphocytes, macrophages, NK cells and other non-hematopoietic cell types. Additionally, IFN $\gamma$  induces the production of cytokines, Fc receptor, and adhesion molecules and up-regulates MHC class I and II antigen expression by antigen presenting cells during an immune response. IFN $\gamma$  has also been shown to modulate macrophage effector functions, influence isotype switching and induce the secretion of immunoglobulins by B cells. IFN $\gamma$  signals through the IFN gamma receptor which exists as a heterodimer composed of CD119 (IFN gamma receptor 1) and AF-1 (IFN gamma receptor 2). The IFN $\gamma$  receptor is expressed ubiquitously on almost all cell types with the exception of mature erythrocytes. The XMG1.2 antibody is a neutralizing antibody.

**Shelf-life and Storage**

**Bio X Cell, Inc.**

bxcell.com  
1.866.787.3444  
[customerservice@bxcell.com](mailto:customerservice@bxcell.com)

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Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at [bxccll.com/faqs](https://bxccll.com/faqs).

## Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

## Application References

For a complete list of references, visit <https://bxccll.com/product/invivoplus-anti-m-ifngamma/#references> or scan the QR code below.

