

## RecombiMAb anti-mouse IFNAR-1 (LALA-PG)

**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://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

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

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

### Product Information

**Catalog Number:** CP056  
**Clone:** MAR1-5A3-CP056  
**Isotype:** Mouse IgG2a  
**Recommended Isotype Control(s):** RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** Extracellular domain of mouse IFNAR-1  
**Reported Applications:** *in vitro* IFNAR-1 blockade\*  
*in vivo* IFNAR-1 blockade\*  
\*Reported for the original mouse IgG1 antibody. For information on *in vivo* applications, please contact [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com)  
**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives  
**Endotoxin:** <1EU/mg (<0.001EU/μg)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2 μm filtration  
**Production:** Purified from HEK293 cell supernatant in an animal-free facility  
**Purification:** Protein G  
**Aggregation:** <5%  
Determined by SEC  
**RRID:**  
**Molecular Weight:** 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

MAR1-5A3-CP056 monoclonal antibody is a recombinant, chimeric version of the original MAR1-5A3 antibody. The variable domain sequences are identical to clone MAR1-5A3, but the constant region has been converted from mouse IgG1 to mouse IgG2a. MAR1-5A3-CP056 also contains Fc silencing mutations rendering it unable to bind to endogenous Fcγ receptors, similar to therapeutic anti-IFNAR-1 antibodies such as Anifrolumab. These mutations prevent Fc-effector functions like antibody-dependent cellular cytotoxicity (ADCC) and complement-dependent cytotoxicity (CDC). The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma

derived antibodies. MAR1-5A3-CP056 antibody reacts with mouse IFNAR-1 (IFN alpha/beta receptor subunit 1). IFNAR-1 is co-expressed with IFNAR-2 on most cell types and together these two subunits make up the heterodimeric Type I IFN Receptor complex. Type I IFNs (IFN- $\alpha/\beta$ ) bind to the Type I IFN Receptor complex to induce cellular responses including induction of anti-viral, anti-microbial, anti-tumor, and autoimmune responses as well as to regulate activation, proliferation, and differentiation. The MAR1-5A3 antibody has demonstrated inhibition of Type I IFN receptor signaling in vitro and in vivo.

## Storage

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

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 <https://bioxcell.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.

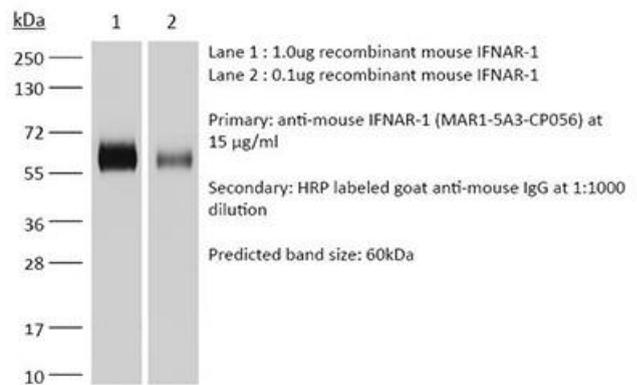
## Application References

For a complete list of references, visit [https://bioxcell.com/cp056?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/cp056?bxcs=9k1b3a#tab_references) or scan the QR code below.



## Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



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