

## Purified anti-mouse IFNAR-1

**Catalog # / Size:** 127301 / 25 µg  
127302 / 100 µg

**Clone:** MAR1-5A3

**Isotype:** Mouse IgG1, κ

**Immunogen:** Plasmid DNA encoding murine IFNAR1 extracellular domain

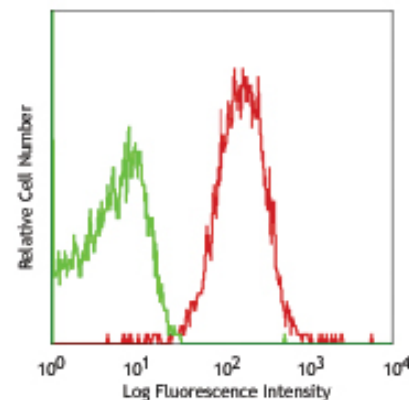
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



C57BL/6 splenocytes stained with purified MAR1-5A3, followed by biotinylated anti-mouse IgG1 and Sav-PE

## Applications:

**Applications:** FC - *Quality tested*  
IP, WB, ELISA - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 127304). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 127322) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

**Application References:**

1. Sheehan KC, *et al.* 2006. *J. Interferon Cytokine Res.* 26:804. (FC, Block, IP, WB, ELISA)
2. Dunn GP, *et al.* 2005. *Nat. Immunol.* 6:722. (FC, WB)
3. Miller JC, *et al.* 2008. *J. Immunol.* 181:8492. PubMed
4. Habjan M, *et al.* 2009. *J. Virol.* 83:4365. PubMed
5. Kelly-Scumpia KM, *et al.* 2010. *J. Exp. Med.* 207:319. PubMed
6. Swanson CL, *et al.* 2010. *J. Exp. Med.* 207:1485. PubMed
7. Marshall HD, *et al.* 2011. *J. Virol.* epub. PubMed

**Description:** IFNAR-1, the type I IFN receptor subunit 1, is coexpressed with IFNAR-2 on nearly all cells and make up the heterodimeric receptor complex that binds to all type I IFNs (IFN-α/β). Type I IFNs are a group of structurally and functionally related cytokines that have been shown to promote anti-viral, anti-microbial, anti-tumor, and autoimmune responses. Ligand binding to the IFN-α/β receptor complex leads to the tyrosine phosphorylation and activation of IFNAR-1-associated Tyk2 and IFNAR-2-associated Jak1 signal transductions.

**Antigen References:**

1. Branca AA, *et al.* 1981. *Nature* 294:768.
2. Orchansky P, *et al.* 1984. *J. Interferon Res.* 4:275.
3. Hemmi S, *et al.* 1994. *Cell* 76:803.
4. Novick D, *et al.* 1994. *Cell* 77:391.

### Related Products:

**Product**  
Purified Mouse IgG1, κ Isotype Ctrl  
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl

**Clone**  
MOPC-21  
MG1-45

**Application**  
FC, ICFC, ICC, IF, IHC, IP, WB  
FC, ICFC, WB, IP, ICC, IF, FA



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