

## Biotin anti-mouse IFNAR-1

**Catalog # / Size:** 127305 / 25 µg  
127306 / 100 µg

**Clone:** MAR1-5A3

**Isotype:** Mouse IgG1, κ

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

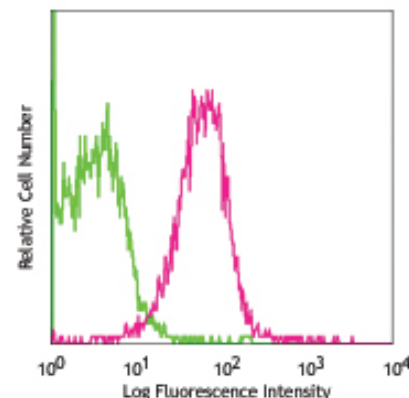
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**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. **Do not freeze.**



C57BL/6 mouse splenocytes stained with biotinylated MAR1-5A3, followed by 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  $\leq 1.0$  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- $\alpha/\beta$ ). 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- $\alpha/\beta$  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	Clone	Application
	Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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