

PE anti-mouse IFNAR-1

Catalog # / Size: 127311 / 25 µg
127312 / 100 µg

Clone: MAR1-5A3

Isotype: Mouse IgG1, κ

Immunogen: Plasmid DNA encoding murine IFNAR1 extracellular domain

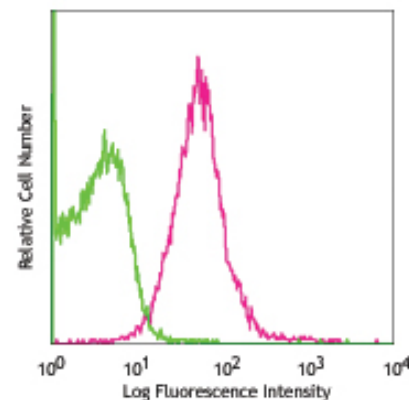
Reactivity: Mouse

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

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

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with MAR1-5A3 PE

Applications:

Applications: FC - Quality tested

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	Clone	Application
	PE 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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.