BioLegend
The path to legendary discovery™

Product Data Sheet

APC anti-mouse IFNAR-1

Catalog # / Size: 127313 / 25 µg
127314 / 100 µg

Clone: MAR1-5A3

Isotype: Mouse IgG1, κ

Immunogen: Plasmid DNA encoding murine IFNAR1 extracellular domain

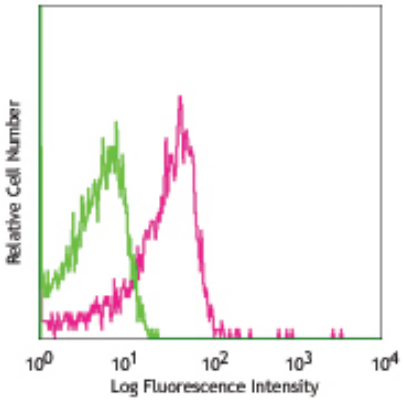
Reactivity: Mouse

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

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
APC 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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