

## APC anti-mouse IFNAR-1 Antibody

<b>Catalog# / Size</b>	127313 / 25 µg 127314 / 100 µg
<b>Clone</b>	MAR1-5A3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IFNAR1, IFN-αR1, IFN-α/β Receptor Subunit 1
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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.

### Product Details

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Exogenously expressed murine IFNAR1 extracellular domain
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric 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.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: Western blotting <sup>1,2</sup> , immunoprecipitation <sup>1</sup> , ELISA <sup>1</sup> , and blocking <sup>8,9</sup> . For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 127322) (Endotoxin <0.01 EU/µg).
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Sheehan KC, <i>et al.</i> 2006. <i>J. Interferon Cytokine Res.</i> 26:804. (FC, Block, IP, WB, ELISA)</li> <li>2. Dunn GP, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:722. (FC, WB)</li> <li>3. Miller JC, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:8492. <a href="#">PubMed</a></li> <li>4. Habjan M, <i>et al.</i> 2009. <i>J. Virol.</i> 83:4365. <a href="#">PubMed</a></li> <li>5. Kelly-Scumpia KM, <i>et al.</i> 2010. <i>J. Exp. Med.</i> 207:319. <a href="#">PubMed</a></li> <li>6. Swanson CL, <i>et al.</i> 2010. <i>J. Exp. Med.</i> 207:1485. <a href="#">PubMed</a></li> <li>7. Marshall HD, <i>et al.</i> 2011. <i>J. Virol.</i> epub. <a href="#">PubMed</a></li> <li>8. Swann JB, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:7540. (Block)</li> <li>9. Jones GW, <i>et al.</i> 2011. <i>FASEB J.</i> 25:409. (Block)</li> <li>10. Mitzel DN, <i>et al.</i> 2014. <i>J. Immunol.</i> 192:4273. <a href="#">PubMed</a></li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Diaz-Arevalo D, Kalkum J 2012. <i>Front Microbiol.</i> 22:299. <a href="#">PubMed</a></li> <li>2. Harkins S, <i>et al.</i> 2014. <i>J. Virol.</i> 55:5807. <a href="#">PubMed</a></li> </ol>

3. Kelsey E Sivick *et al.* 2018. Cell reports. 25(11):3074-3085 . [PubMed](#)
4. Evgin L, *et al.* 2020. Nat Commun. 2.671527778. [PubMed](#)
5. Mansouri S, *et al.* 2020. Mucosal Immunol. 0.954861111. [PubMed](#)
6. Yamamoto K, *et al.* 2021. iScience. 24:103064. [PubMed](#)
7. Ng S, *et al.* 2022. Sci Rep. 12:14087. [PubMed](#)
8. Shen H, *et al.* 2022. Nat Commun. 13:5013. [PubMed](#)

**RRID** AB\_2122746 (BioLegend Cat. No. 127313)  
AB\_2122745 (BioLegend Cat. No. 127314)

## Antigen Details

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**Distribution** IFNAR1 and IFNAR2 are coexpressed on nearly all cells.

**Ligand/Receptor** IFN- $\alpha/\beta$

**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.

**Gene ID** [15975](#)

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

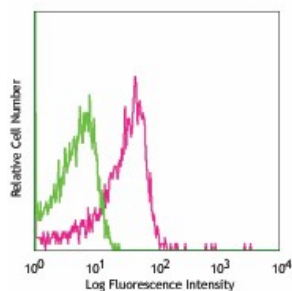
## Other Formats

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Purified anti-mouse IFNAR-1, Biotin anti-mouse IFNAR-1, PE anti-mouse IFNAR-1, APC anti-mouse IFNAR-1, Ultra-LEAF™ Purified anti-mouse IFNAR-1, PE/Cyanine7 anti-mouse IFNAR-1

## Product Data

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C57BL/6 splenocytes stained with  
MAR1-5A3 APC

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