

Ultra-LEAF™ Purified anti-mouse IFNAR-1 Antibody

Catalog# / Size	127321 / 100 µg 127322 / 1 mg 127323 / 5 mg 127324 / 25 mg 127327 / 50 mg 127328 / 100 mg
Clone	MAR1-5A3
Regulatory Status	RUO
Other Names	IFNAR1, IFN-αR1, IFN-α/β Receptor Subunit 1
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Exogenously expressed murine IFNAR1 extracellular domain
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested IP, WB, ELISA, Block - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 2.0 µg per million cells in 100 µL volume or 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ^{1,2} , immunoprecipitation ¹ , ELISA ¹ , and blocking ^{8,9} . For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 127322) (Endotoxin <0.01 EU/µg).
Application References	<ol style="list-style-type: none"> 1. Sheehan KC, <i>et al.</i> 2006. <i>J. Interferon Cytokine Res.</i> 26:804. (FC, Block, IP, WB, ELISA) 2. Dunn GP, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:722. (FC, WB) 3. Miller JC, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:8492. PubMed 4. Habjan M, <i>et al.</i> 2009. <i>J. Virol.</i> 83:4365. PubMed 5. Kelly-Scumpia KM, <i>et al.</i> 2010. <i>J. Exp. Med.</i> 207:319. PubMed 6. Swanson CL, <i>et al.</i> 2010. <i>J. Exp. Med.</i> 207:1485. PubMed 7. Marshall HD, <i>et al.</i> 2011. <i>J. Virol.</i> epub. PubMed 8. Swann JB, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:7540. (Block)

9. Jones GW, *et al.* 2011. *FASEB J.* 25:409. (Block)
10. Mitzel DN, *et al.* 2014. *J. Immunol.* 192:4273. [PubMed](#)

Product Citations

1. Tsuchiya N, *et al.* 2020. *Cell Reports.* 29(1):162-175.e9. [PubMed](#)
2. Burke TP, *et al.* 2020. *Nat Microbiol.* 0.6861111111. [PubMed](#)
3. Kanno T, *et al.* 2022. *Front Immunol.* 13:904875. [PubMed](#)
4. Oyler-Yaniv J *et al.* 2017. *Molecular cell.* 66(5):635-647. [PubMed](#)
5. Kalafati L, *et al.* 2020. *Cell.* 183:771. [PubMed](#)
6. Zhao X, *et al.* 2022. *iScience.* 25:104690. [PubMed](#)

RRID

AB_11150409 (BioLegend Cat. No. 127321)
AB_11149116 (BioLegend Cat. No. 127322)
AB_2629521 (BioLegend Cat. No. 127323)
AB_2629522 (BioLegend Cat. No. 127324)
AB_2832460 (BioLegend Cat. No. 127327)
AB_2819862 (BioLegend Cat. No. 127328)

Antigen Details

Distribution IFNAR1 and IFNAR2 are coexpressed on nearly all cells.

Ligand/Receptor IFN- α/β

Antigen References

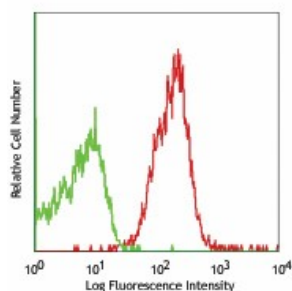
1. Branca AA, *et al.* 1981. *Nature* 294:768.
2. Orchansky P, *et al.* 1984. *J. Interferon Res.* 4:275.
3. Hemmi S, *et al.* 1994. *Cell* 76:803.
4. Novick D, *et al.* 1994. *Cell* 77:391.

Gene ID [15975](#)

Other Formats

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



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

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