

## **Product Data Sheet**

## LEAF<sup>™</sup> Purified anti-mouse IFNAR-1

Catalog # / Size:	127303 / 50 µg 127304 / 500 µg		
Clone:	MAR1-5A3		
Isotype:	Mouse IgG1, κ		
Immunogen:	Plasmid DNA encoding murine IFNAR1 extracellular domain		
Reactivity:	Mouse		
Preparation:	The LEAF <sup>™</sup> (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.		
Formulation:	0.2 $\mu$ m filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/ $\mu$ g of the protein (<0.01 ng/ $\mu$ g of th protein) as determined by the LAL test.		
Concentration:	1.0 mg/ml		
Storage:	The IFNAR-1antibody solution should be stored undiluted at 4°C. This LEAF ™ solution contains no preservative: handle under aseptic conditions.		



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

## **Applications:**

Applications:	FC - Quality tested IP, WB, ELISA, Block - 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 $\leq 2.0 \ \mu$ g per million cells in 100 $\mu$ l volume or 100 $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.			
Application Notes:	The LEAF <sup>™</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 127304). For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF <sup>™</sup> purified antibody (Cat. No. 127322) with a lower endotoxin limit than standard LEAF <sup>™</sup> purified antibodies (Endotoxin <0.01 EU/µg).			
Application References:	<ol> <li>Sheehan KC, et al. 2006. J. Interferon Cytokine Res. 26:804. (FC, Block, IP, WB, ELISA)</li> <li>Dunn GP, et al. 2005. Nat. Immunol. 6:722. (FC, WB)</li> <li>Miller JC, et al. 2008. J. Immunol. 181:8492. PubMed</li> <li>Habjan M, et al. 2009. J. Virol. 83:4365. PubMed</li> <li>Kelly-Scumpia KM, et al. 2010. J. Exp. Med. 207:319. PubMed</li> <li>Swanson CL, et al. 2010. J. Exp. Med. 207:1485. PubMed</li> <li>Marshall HD, et al. 2011. J Virol. epub. PubMed</li> </ol>			
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:	<ol> <li>Branca AA, et al. 1981. Nature 294:768.</li> <li>Orchansky P, et al. 1984. J. Interferon Res. 4:275.</li> <li>Hemmi S, et al. 1994. Cell 76:803.</li> <li>Novick D, et al. 1994. Cell 77:391.</li> </ol>			
Related Products	: <b>Product</b> LEAF™ Purified Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)	<b>Clone</b> MG1-45	Application FC, ICFC, WB, IP, ICC, IF, FA FC, ICC, ICFC FC, ICFC	



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