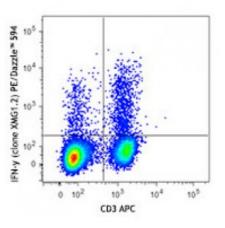
Product Data Sheet

PE/Dazzle[™] 594 anti-mouse IFN-γ

Catalog # / Size:	3129230 / 100 μg 3129225 / 25 μg
Clone:	XMG1.2
Isotype:	Rat IgG1, к
Immunogen:	<i>E. coli</i> -expressed, recombinant mouse IFN-γ
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle [™] 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle [™] 594 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



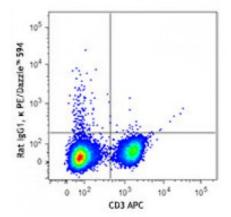
PMA + Ionomycin-stimulated (6 hours) C57BL/6 mouse splenocytes (in the presence of monensin) were stained with CD3 APC, fixed, permeabilized, and then stained with IFN-γ (clone XMG1.2) PE/DazzleTM 594 (top) or rat IgG1, κ PE/DazzleTM

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	ELISA ^{1-4,11,14} or ELISPOT5 Detection: The biotinylated XMG1.2 antibody is useful as a detection

antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified R4-6A2 antibody (Cat. No. 505702/505706) as the capture antibody and recombinant mouse IFN- γ (Cat. No. 575309) as the standard. ELISA or ELISPOT Capture: The

purified XMG1.2 antibody is useful as a capture antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with biotinylated R4-6A2



For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com antibody (Cat. No. 505704) as the detection antibody and recombinant mouse IFN- γ (Cat. No. 575309) as the standard. The LEAFTM purified antibody is suggested for ELISPOT capture (Cat. No. 505812).

Flow Cytometry^{7,8,12,13,16}: The fluorochrome-labeled XMG1.2 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γproducing cells within mixed cell populations.

Neutralization^{1-3,9,10}: The XMG1.2 antibody can neutralize the bioactivity of natural or recombinant IFN- γ . The LEAFTM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IFN- γ bioactivity *in vivo* and *in vitro* (Cat. No. 505812). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAFTM purified antibody (Cat. No. 505834) with a lower endotoxin limit than standard LEAFTM purified antibodies (Endotoxin <0.01 EU/microg).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of frozen tissue sections^{6,22,23}, and immunocytochemistry. Note: For testing mouse IFN-γ in serum, plasma or supernatant, BioLegend's ELISA Max[™] Sets (Cat. No. 430801 to 430806) are specially developed and recommended.

Application References:	 Abrams J, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. (ELISA, Neut) Sander B, <i>et al.</i> 1993. <i>J. Immunol. Meth.</i> 166:201. (ELISA, Neut) Abrams J, <i>et al.</i> 1995. <i>Curr. Prot. Immunol.</i> John Wiley and Sons, New York. Unit Curr. Prot. Immunol. John Wiley and Sons, New York. Unit Yang X, <i>et al.</i> 1993. <i>J. Immunoassay</i> 14:129. (ELISA) Klinman D, <i>et al.</i> 1994. <i>Curr. Prot. Immunol.</i> John Wiley and Sons, New York. Unit 6.19. (ELISPOT) Sander B, <i>et al.</i> 1991. <i>Immunol. Rev.</i> 119:65. (IHC) Ferrick D, <i>et al.</i> 1995. <i>Nature</i> 373:255. (FC) Ko SY, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:3309. (FC) PubMed Peterson KE, <i>et al.</i> 2000. <i>J. Virol.</i> 74:5363. (Neut) DeKrey GK, <i>et al.</i> 1998. <i>Infect. Immun.</i> 66:827. (Neut) Dzhagalov I, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:2113. (ELISA) Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366. (FC) Lee JW, <i>et al.</i> 2006. <i>Nature Immunol.</i> 8:181. (FC) PubMed Xu G, <i>et al.</i> 2008. <i>J. Immunol.</i> 173:4084. PubMed Haring JS, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. (PD Med Tonkin DR, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. PubMed Charles N, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. PubMed Oral JM, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. PubMed Morkin DR, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. PubMed Tonkin DR, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) PubMed Cui Y, <i>et al.</i> 2019. <i>Invest. Ophth. Vis. Sci.</i> 50:5811. (FC) PubMed Mykkanen OT, <i>et al.</i> 2014. <i>PLoS One.</i> 9:114790. PubMed
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Description: IFN- γ is a potent multifunctional cytokine which is secreted primarily by activated

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com NK cells and T cells. Originally characterized based on anti-viral activities, IFN- γ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- γ can upregulate MHC class I and II antigen expression by antigen-presenting cells.

Antigen 1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

2. De Maeyer E, *et al.* 1992. *Curr. Opin. Immunol.* 4:321.

3. Farrar M, et al. 1993. Annu. Rev. Immunol. 11:571