Brilliant Violet 711[™] anti-mouse IFN-γ

Catalog # / Size:	3129175 / 125 μl 3129180 / 50 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 Brilliant Violet 711 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 711 [™] and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



PMA + Ionomycin-stimulated (6 hours) C57BL/6 mouse splenocytes (in the presence of monensin) were stained with CD3 PE, fixed, permeabilized, and then stained with IFN-γ (clone XMG1.2) Brilliant Violet 7 11[™].

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Applications:				
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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 \leq 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.			
	Brilliant Violet 711 [™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711 [™] is a trademark of Sirigen Group Ltd.			
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.			
Application Notes:	 ELISA^{1-4,11,14} or ELISPOT5 Detection: The biotinylated XMG1.2 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 antibody (Cat. No. 505704) as the detection antibody and recombinant mouse IFN-γ (Cat. No. 575309) as the standard. 			

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	 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-γ-producing 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 LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IFN-γ bioactivity <i>in vivo</i> and <i>in vitro</i> (Cat. No. 505812). For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 505834) with a lower endotoxin limit than standard LEAF™ 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 6.20. (ELISA, Neut) 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> 2007. <i>J. Immunol.</i> 178:2113. (ELISA) Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366. (FC) Ko G <i>et al.</i> 2006. <i>Nature Immunol.</i> 8:181. (FC) PubMed Montfort M, <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. PubMed 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 Montfort M, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4516. PubMed Jordan JM, <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 Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) PubMed Charles N, <i>et al.</i> 2013. <i>Mol. Carcinog.</i> 52:760. (IHC) Mykkanen OT, <i>et al.</i> 2013. <i>Mol. Carcinog.</i> 52:760. (IHC) Mottram PL, <i>et al.</i> 1998. <i>J Immunol.</i> 161:602. (IHC)
Description:	IFN-γ is a potent multifunctional cytokine which is secreted primarily by activated 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, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San

References: Diego.

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2. De Maeyer E	, <i>et al.</i> 1992.	Curr. Opin.	Immunol. 4:321.

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