

PE anti-mouse CXCL9 (MIG) Antibody

Catalog# / Size	515603 / 25 µg 515604 / 100 µg
Clone	MIG-2F5.5
Regulatory Status	RUO
Other Names	MIG-1, MIG
Isotype	Armenian Hamster IgG, κ
Description	<p>MIG, also known as mig-1, CXCL9, is a member of the alpha subfamily of inflammatory chemokine. It is inducible in macrophages, hepatocytes, and endothelial cells by IFN-γ, but not by TNF-α or bacterial lipopolysaccharides (LPS). Mig functions as a chemotactic factor for resting memory and activated T cells, both CD4⁺ and CD8⁺, and natural killer cells. Furthermore, it was reported that Mig induced both calcium signals and chemotaxis in activated B cells and that B cell activation induced expression of mouse CXCR3. MIG and CXCR3 may be important not only to recruit T cells to peripheral inflammatory sites, but also in some cases to maximize interactions among activated T cells, B cells, and dendritic cells within lymphoid organs to provide optimal humoral responses to pathogens.</p>

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
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 ≤ 1.0 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	<ol style="list-style-type: none">1. Johnson S, <i>et al.</i> 2015. J Virol. 89: 7494-7505. PubMed2. Melo-Silva CR, <i>et al.</i> 2021. PLOS Pathogens. 17(5):e1009593. PubMed3. de Mingo Pulido, <i>et al.</i> 2021. Immunity. 54(6):1154-1167.e7. PubMed4. Álvaro de Mingo Pulido <i>et al.</i> 2018. Cancer cell. 33(1):60-74. PubMed5. Xiong X <i>et al.</i> 2019. Mol Cell. 75(3):644-660. PubMed6. Asai A, <i>et al.</i> 2010. Infect Immun. 78:4311. PubMed
RRID	AB_2245490 (BioLegend Cat. No. 515603) AB_2245489 (BioLegend Cat. No. 515604)

Antigen Details

Structure	A member of the alpha subfamily of inflammatory chemokine.
Distribution	Inducible in macrophages, hepatocytes, and endothelial cells by IFN- γ .
Function	Recruit T cells to peripheral inflammatory sites, maximize interactions among activated T cells, B cells, and dendritic cells within lymphoid organs.
Ligand/Receptor	CXCR3
Cell Type	Macrophages
Biology Area	Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	1. Thapa M <i>et al.</i> 2008. <i>J. Immunol.</i> 180(2):1098 2. Whiting D <i>et al.</i> 2004. <i>J. Immunol.</i> 172 (12):7417 3. Helbig KJ. <i>et al.</i> 2009. <i>J Virol.</i> 83(2):836
Gene ID	4283

Related Protocols

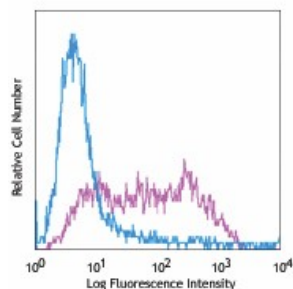
[Intracellular Cytokine Staining Protocol - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CXCL9 (MIG), PE anti-mouse CXCL9 (MIG), Alexa Fluor® 647 anti-mouse CXCL9 (MIG)

Product Data



IFN-g-primed (2 hour) and LPS-stimulated (overnight) Balb/c peritoneal macrophages intracellularly stained with MIG-2F5 PE

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587