

Brilliant Violet 421™ anti-mouse CD64 (FcγRI) Antibody

Catalog# / Size	161011 / 50 µg
Clone	S18017D
Regulatory Status	RUO
Other Names	FcRI
Isotype	Rat IgG2a, κ
Description	CD64 is a 72 kD single chain type I glycoprotein also known as FcγRI and FcRI. CD64 is a member of the immunoglobulin superfamily and is expressed on monocytes/macrophages, dendritic cells, and mast cells. The expression can be upregulated by IFN-γ stimulation. CD64 binds IgG immune complex. It plays a role in antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC).

Product Details

Verified Reactivity	Mouse, Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse FcγRI/CD64 (Cat. No. 773806)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ 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	FC - Quality tested
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 ≤ 0.06 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. 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.
Excitation Laser	Violet Laser (405 nm)
RRID	AB_3717100 (BioLegend Cat. No. 161011)

Antigen Details

Structure	Ig superfamily, type I glycoprotein, 72 kD
Distribution	Monocytes, macrophages, mast cells, dendritic cells
Function	Phagocytosis, ADCC
Ligand/Receptor	IgG
Antigen References	1. Schyns J, <i>et al.</i> 2019. <i>Nat. Commun.</i> 3;10(1):3964 2. Langlet C, <i>et al.</i> 2012. <i>J. Immunol.</i> 188 (4) 1751-1760.
Gene ID	14129

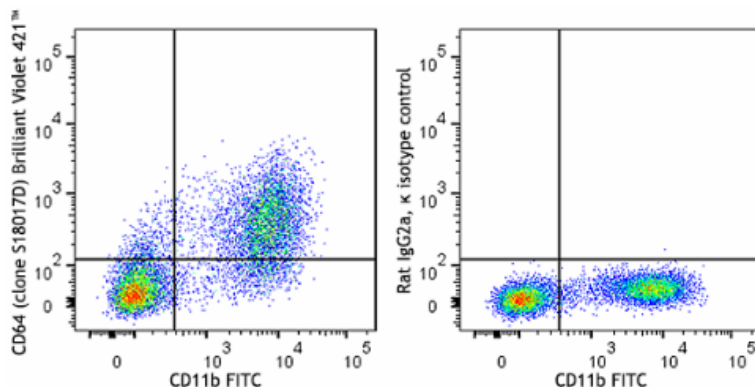
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD64 (FcγRI) Antibody, APC anti-mouse CD64 (FcγRI), FITC anti-mouse CD64 (FcγRI), PE anti-mouse CD64 (FcγRI), PE/Fire™ 744 anti-mouse CD64 (FcγRI), Spark PLUS B550™ anti-mouse CD64 (FcγRI), Spark Blue™ 574 anti-mouse CD64 (FcγRI) (Flexi-Fluor™), Brilliant Violet 711™ anti-mouse CD64 (FcγRI) Antibody, Brilliant Violet 421™ anti-mouse CD64 (FcγRI) Antibody

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse/human CD11b (clone M1/70) FITC and anti-mouse CD64 (FcγRI) (clone S18017D) Brilliant Violet 421™ (left) or rat IgG2a, κ Brilliant Violet 421™ isotype control (right). Data shown were gated on total cells.

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