

Spark PLUS B550™ anti-mouse CD64 (FcγRI) Antibody

Catalog# / Size	161015 / 25 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
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS B550™ 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)

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.

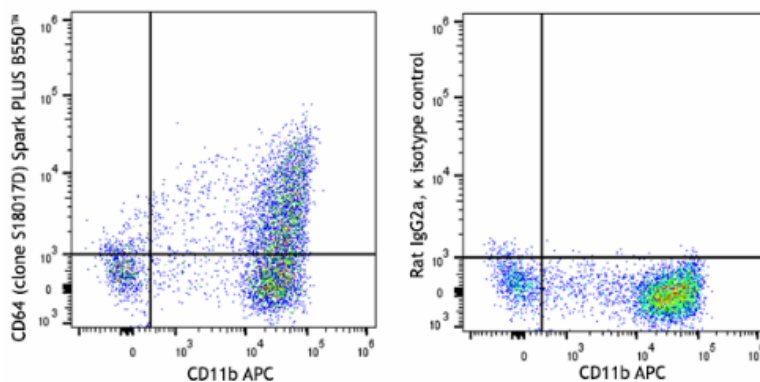
Related Protocols

- [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) APC and anti-mouse CD64 (FcγRI) (clone S18017D) Spark PLUS B550™ (left) or rat IgG2a, κ Spark PLUS B550™ isotype control (right). Data shown was gated on myeloid cells.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

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