

Purified anti-mouse CD64 (FcγRI) Antibody

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|--------------------------|--|
| Catalog# / Size | 161002 / 100 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

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|-------------------------------|---|
| Reactivity | Mouse |
| 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 |
| Concentration | 0.5 mg/mL |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. |
| Application | FC - Quality tested IHC-F - Verified |
| 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 ≤ 0.25 µg per million cells in 100 µL volume. For immunohistochemistry on frozen tissue sections, a concentration range of 5 - 10 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application. |
| RRID | AB_2890725 (BioLegend Cat. No. 161002) |

Antigen Details

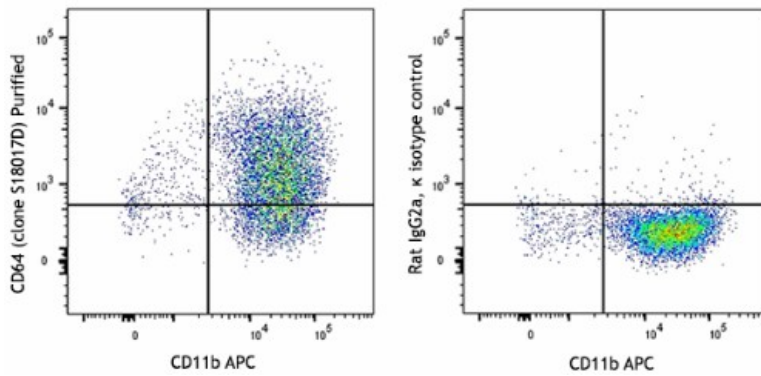
| | |
|---------------------------|--|
| Structure | Ig superfamily, type I glycoprotein, 72 kD |
| Distribution | Monocytes, macrophages, mast cells, dendritic cells |
| Function | Phagocytosis, ADCC |
| Ligand/Receptor | IgG |
| Antigen References | 1. Schyns J, <i>et al.</i> 2019. <i>Nat. Commun.</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

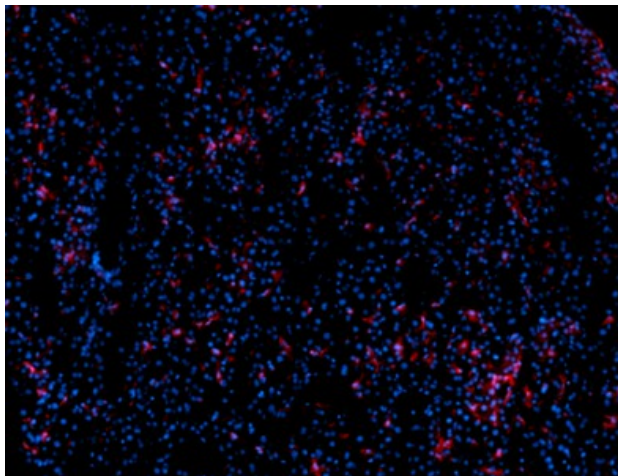
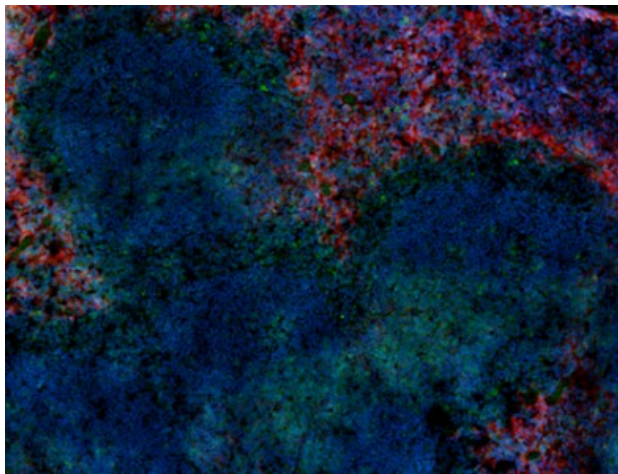
Other Formats

Purified anti-mouse CD64 (FcγRI) Antibody, PE anti-mouse CD64 (FcγRI), APC anti-mouse CD64 (FcγRI), FITC anti-mouse CD64 (FcγRI)

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD11b APC and purified anti-mouse CD64 (FcγRI) (clone S18017D) (left) or purified anti-rat IgG2a, κ isotype control (right), followed by goat anti-rat IgG PE. Data shown was gated on myeloid cells.



C57BL/6 mouse frozen liver section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then, the section was stained with 10 μg/mL of Purified anti-mouse CD64 (FcγRI) Antibody (clone S18017D) overnight at 4°C. On the next day, the tissue was washed twice with PBS and stained with Alexa Fluor® 594 anti-rat IgG (clone Poly4054, red) for two hours at room temperature. The image was captured with a 10X objective.

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