BioLegend®

Version: 1 Revision Date: 03/12/2025

PerCP/Fire™ 806 anti-human CD64 Antibody

Catalog# / Size	399623 / 25 tests 399624 / 100 tests
Clone	S18012E
Regulatory Status	RUO
Other Names	FcγRI, FcR I
Isotype	Mouse IgG1, κ
Description	CD64 is a 72 kD single chain type I glycoprotein also known as FcγRI and FcR I. CD64 is a member of the immunoglobulin superfamily and is expressed on monocytes/macrophages, dendritic cells, and activated granulocytes. 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	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human CD64-Fc (1257-FC-050)
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 PerCP/Fire™ 806 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire™ 806 has a maximum excitation of 478 nm and a maximum emission of 806 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	In-house testing suggests that S18012E partially blocks the binding of clone 10.1 but not clone S18012C. Clone 10.1 recognizes the EC3 epitope of CD64. While both CD64 subunits contain EC3 domains, clone 10.1 preferentially binds to CD64A (FcγRIA) but not CD64B (FcγRIB).
RRID	AB_3699049 (BioLegend Cat. No. 399623) AB_3699049 (BioLegend Cat. No. 399624)

Antigen Details

Structure	Ig superfamily, type I glycoprotein, 72 kD
Distribution	Monocytes, macrophages, dendritic cells, activated granulocytes

Function	Phagocytosis, ADCC
Ligand/Receptor	IgG receptor
Cell Type	Dendritic cells, Granulocytes, Macrophages, Monocytes
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules, Fc Receptors
Antigen References	1. Hulett MD & Hogarth PM. 1994. *Adv Immunol*. 57:1-127. 2. van de Winkel JG & Capel PJ. 1993. *Immunol Today.* 14:215-21.
Gene ID	2209

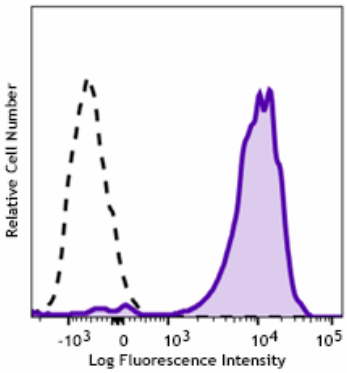
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

FITC anti-human CD64, PE anti-human CD64, Purified anti-human CD64, PE/Dazzle™ 594 anti-human CD64, PerCP/Cyanine5.5 anti-human CD64, APC/Fire™ 810 anti-human CD64 Antibody, PE/Cyanine7 anti-human CD64, Alexa Fluor® 700 anti-human CD64, APC anti-human CD64, APC/Fire™ 750 anti-human CD64, PerCP/Fire™ 780 anti-human CD64 Antibody, PerCP/Fire™ 806 anti-human CD64

Product Data



Human peripheral blood monocytes were stained with anti-human CD64 (clone S18012E) PerCP/Fire™ 806 (filled histogram) or mouse IgG1, κ PerCP/Fire™ 806 isotype control (open histogram).

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