

FITC anti-human CD64

Catalog # / Size: 2597530 / 100 tests
2597525 / 25 tests

Clone: S18012C

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human CD64-Fc (1257-FC-050)

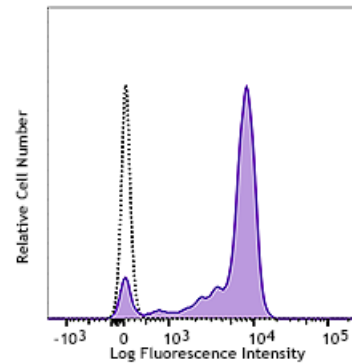
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: IV A053

Concentration: 0.5 mg/mL



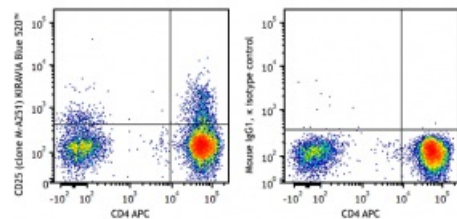
Human peripheral blood monocytes were stained with CD64 (clone S18012C) FITC (filled histogram) or mouse IgG1, κ (clone MOPC-21) FITC isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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.

Application Notes: S17015F is able to cross-block binding of clones HIT2 and HB-7 also raised against human CD38, but not S17015A based on in-house testing.



Human peripheral blood lymphocytes were stained with CD4 APC and CD25 (clone M-A251) KIRAVIA Blue 520™ (left) or mouse IgG1, κ KIRAVIA Blue 520™ isotype control (right).

Application References: 1. Li H and Pauza CD. 2015. *Eur. J. Immunol.* 45:298. (IHC)

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).

Antigen References: 1. Hulett M & Hogarth PM. 1994. *Adv Immunol.* 57:1-127.
2. van de Winkel J & Capel PJ. 1993. *Immunol Today* 14:215.

