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## Anti-Human CD64 (Fc gamma Receptor 1) Functional Grade Purified

**Catalog Number:** 16-0649

**Also Known As:** FcgammaR1, Fcgamma R1, FcgR1

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Human CD64 (Fc gamma Receptor 1)  
Functional Grade Purified

**REF** **Catalog Number:** 16-0649

**Clone:** 10.1

**Concentration:** 1 mg/ml

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** III M-250


**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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### Description

The 10.1 monoclonal antibody reacts with human CD64 (FcRI), a 75 kDa type I transmembrane protein. CD64 is the high affinity receptor for IgG and is involved in antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, and regulation of cytokine production. Monocytes and macrophages express CD64, while mature granulocytes and lymphocytes are negative.

### Applications Reported

This 10.1 antibody has been reported for use in flow cytometric analysis, and immunohistology staining of frozen tissue sections.

### Applications Tested

This 10.1 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

**McMichael, A.J., P.C.L. Beverly, et al. eds. (1987).** Leucocyte Typing III: White Cell Differentiation Antigens. Oxford University Press. New York.

**Schlossman, S., L. Bloumsell, et al. eds (1995).** Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

**Kishimoto, T., A.E.G., von dem Borne, et al. eds. (1998).** Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing Inc. London.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

17-4317 Streptavidin APC

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