

# Anti-Human CD64 (10.1)



Pure	64PU-OIMG	100 µg
FITC	64F-100T	100 test
PE	64PE-100T	100 test
APC	64A-100T	100 test
PerCP	64PP-OIMG	100 µg



## 1. PRODUCT DESCRIPTION

- **Clone:** 10.1;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD64 monoclonal antibody derives from human rheumatoid synovial fluid cells and fibronectin-purified monocytes;
- **Species reactivity:** Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus, Capuchin Monkey, Squirrel Monkey;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>);
- **Recommended usage:** Immunostep's CD64, clone 10.1 is a monoclonal antibody intended for the identification and enumeration of monocytes, macrophages, dendritic cells, granulocytes activated with interferon-gamma and early myeloid lineage cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells.
- **Presentation:** liquid;
- **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification:** Affinity chromatography;
- **Other names:** High affinity immunoglobulin gamma Fc receptor I, IgG Fc receptor I, Fc-gamma RI, FcRI, Fc-gamma RIA, FcgammaRIa;
- **Gene ID:** 2209;
- **Molecular weight:** 75 kDa.

## 2. ANTIGEN DETAILS

**Large description:** This antibody reacts with the CD64-antigen (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.<sup>(1-4)</sup>

## 3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

## 5. REFERENCES

1. Dougherty GJ, Selvendran Y, Murdoch S, Palmer DG, Hogg N. The human mononuclear phagocyte high-affinity Fc receptor, FcRI, defined by a monoclonal antibody, 10.1. *Eur J Immunol*1987 Oct;17(10):1453-9.
2. Indik ZK, Hunter S, Huang MM, Pan XQ, Chien P, Kelly C, et al. The high affinity Fc gamma receptor (CD64) induces phagocytosis in the absence of its cytoplasmic domain: the gamma subunit of Fc gamma RIIIA imparts phagocytic function to Fc gamma RI. *Exp Hematol*1994 Jul;22(7):599-606.
3. Hashimoto S, Yamada M, Motoyoshi K, Akagawa KS. Enhancement of macrophage colony-stimulating factor-induced growth and differentiation of human monocytes by interleukin-10. *Blood*1997 Jan 01;89(1):315-21.
4. Sanchez-Torres C, Garcia-Romo GS, Cornejo-Cortes MA, Rivas-Carvalho A, Sanchez-Schmitz G. CD16+ and CD16- human blood monocyte subsets differentiate in vitro to dendritic cells with different abilities to stimulate CD4+ T cells. *Int Immunol*2001 Dec;13(12):1571-81.

## 6. EXPLANATION OF SYMBOLS



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

## 7. MANUFACTURED BY: IMMUNOSTEP S.L.



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