

# CD64 Monoclonal Antibody (10.1), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	10.1
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2815176

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	4 Publications

## Product Specific Information

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.

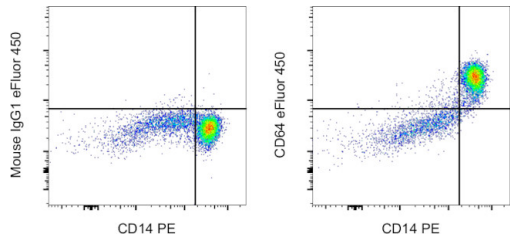
Applications Reported: This 10.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 10.1 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.125 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 10^5 to 10^8 cells/test.

eFluor 450 is an alternative to Pacific Blue. eFluor 450 emits at 446 nm and is excited with the violet laser line (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser

Product Images For CD64 Monoclonal Antibody (10.1), eFluor™ 450, eBioscience™



CD64 Antibody (48-0649-42) in Flow

Normal human peripheral blood cells were stained with CD14 Monoclonal Antibody, PE (Product # 12-0199-42) and Mouse IgG1 kappa Isotype Control, eFluor 450 (Product # 48-4714-82) (left) or CD64 Monoclonal Antibody, eFluor 450 (right). Cells in the monocyte gate were used for analysis.

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4 References

Flow Cytometry (4)

Cancers	Year 2021
<b>Murlentamab, a Low Fucosylated Anti-Müllerian Hormone Type II Receptor (AMHRII) Antibody, Exhibits Anti-Tumor Activity through Tumor-Associated Macrophage Reprogrammation and T Cell Activation.</b>	
"Published figure using CD64 monoclonal antibody (Product # 48-0649-42) in Flow Cytometry"	
Authors: Prat M,Salon M,Allain T,Dubreuil O,Noël G,Preisser L,Jean B,Cassard L,Lemée F,Tabah-Fish I,Pipy B,Jeannin P,Prost JF,Barret JM,Coste A	
Cardiovascular therapeutics	Year 2020
<b>Extracorporeal Hemadsorption <i>versus</i> Glucocorticoids during Cardiopulmonary Bypass: A Prospective, Randomized, Controlled Trial.</b>	
"Published figure using CD64 monoclonal antibody (Product # 48-0649-42) in Flow Cytometry"	
Authors: Taleska Stupica G,Sostaric M,Bozhinovska M,Rupert L,Bosnic Z,Jerin A,Ihan A,Klokocovnik T,Podbregar M	

View more Flow references on thermofisher.com

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