

# CD64 Monoclonal Antibody (10.1), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	10.1
Conjugate	FITC
Excitation/Emission Max	498/517 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_10544395

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (1 µg)/test	8 Publications

## Product Specific Information

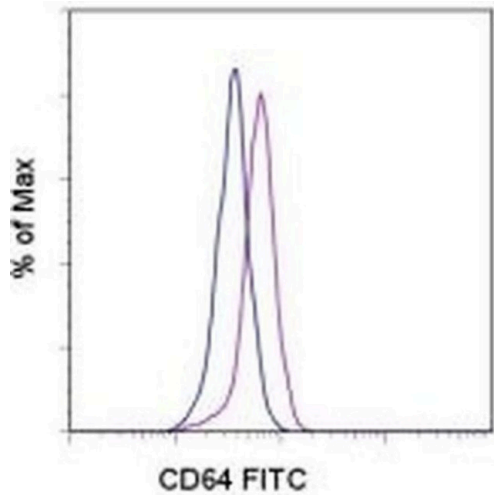
Description: The 10.1 monoclonal antibody reacts with human CD64 (FcRI), a 75 kDa type I transmembrane protein. CD64 is the high affinity receptor for IgG and is involved in antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, and regulation of cytokine production. Monocytes and macrophages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

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

Applications Tested: This 10.1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.



**CD64 Antibody (11-0649-42) in Flow**  
Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD64 (Fc gamma Receptor 1) FITC (purple histogram). Cells in the monocyte gate were used for analysis.

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Immunohistochemistry (1)

<p>mAbs</p> <p><b>Targeting CD64 mediates elimination of M1 but not M2 macrophages in vitro and in cutaneous inflammation in mice and patient biopsies.</b></p> <p>"11-0649 was used in Flow cytometry/Cell sorting to show that targeting M1 macrophages through CD64 can be instrumental in novel strategies for chronic inflammatory conditions."</p> <p>Authors: Hristodorov D,Mladenov R,von Felbert V,Huhn M,Fischer R,Barth S,Thepen T</p>	<p><b>Year</b> 2016</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:40</p>
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Flow Cytometry (8)

<p>Cancers</p> <p><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></p> <p>"Published figure using CD64 monoclonal antibody (Product # 11-0649-42) in Flow Cytometry"</p> <p>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</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p>
<p>Cardiovascular therapeutics</p> <p><b>Extracorporeal Hemadsorption <i>versus</i> Glucocorticoids during Cardiopulmonary Bypass: A Prospective, Randomized, Controlled Trial.</b></p> <p>"Published figure using CD64 monoclonal antibody (Product # 11-0649-42) in Flow Cytometry"</p> <p>Authors: Taleska Stupica G,Sostaric M,Bozhinovska M,Rupert L,Bosnic Z,Jerin A,Ihan A,Klokocovnik T,Podbregar M</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Human</p>

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