

CD16 Monoclonal Antibody (eBioCB16 (CB16)), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioCB16 (CB16)
Conjugate	APC
Excitation/Emission Max	651/660 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_2016663

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	33 Publications

Product Specific Information

Description: The eBioCB16 monoclonal antibody recognizes CD16 (Fc gammaRIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80 kDa. CD16 is represented by two similar genes, CD16A (Fc gammaRIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (Fc gammaRIIIB), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.

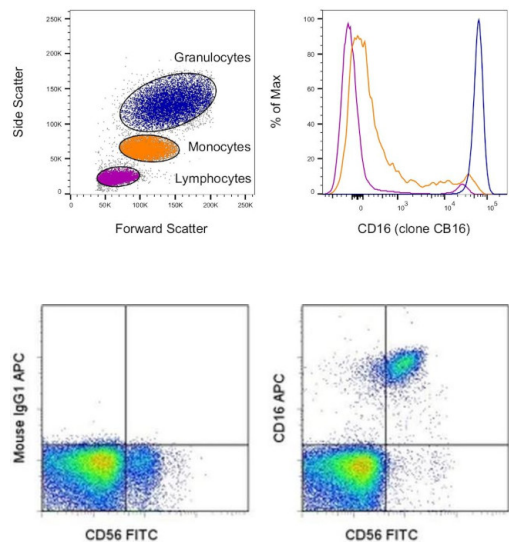
Applications Reported: This eBioCB16 (CB16) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioCB16 (CB16) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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 10⁵ to 10⁸ cells/test.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD16 Monoclonal Antibody (eBioCB16 (CB16)), APC, eBioscience™



CD16 Antibody (17-0168-42)
Staining of human peripheral blood cells. As expected based on known relative expression patterns, CD16 clone CB16 stains all granulocytes, a subset of monocytes and a subset of lymphocytes (NK cells). Details: Normal human whole blood was surface stained with CD16 (clone CB16). After staining, red blood cells were lysed using 1-step Fix/Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used for analysis. {RE}

CD16 Antibody (17-0168-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) FITC and Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or Anti-Human CD16 APC (right). Cells in the lymphocyte gate were used for analysis.

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33 References

Flow Cytometry (33)

<p>PeerJ</p> <p>SARS-CoV-2 Delta (B.1.617.2) variant replicates and induces syncytia formation in human induced pluripotent stem cell-derived macrophages.</p> <p>"Published figure using CD16 monoclonal antibody (Product # 17-0168-42) in Flow Cytometry"</p> <p>Authors: Thaweerattanasin P,T,Wanitchang A,Saenboonrueng J,Srisutthisamphan K,Wanasen N,Sungsuwan S, Jongkaewwattana A,Chailangkarn T</p>	<p>Year 2023</p>
<p>Wellcome open research</p> <p>-----A type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS--.</p> <p>"Published figure using CD16 monoclonal antibody (Product # 17-0168-42) in Flow Cytometry"</p> <p>Authors: Reyes L,A Sanchez-Garcia M,Morrison T,Howden AJM,Watts ER,Arienti S,Sadiku P,Coelho P,Mirchandani AS,Zhang A,Hope D,Clark SK,Singleton J,Johnston S,Grecian R,Poon A,McNamara S,Harper I,Fourman MH,Brenes AJ,Pathak S,Lloyd A,Blanco GR,von Kriegsheim A,Ghesquiere B,Vermaelen W,Cologna CT,Dhaliwal K,Hirani N, Dockrell DH,Whyte MKB,Griffith D,Cantrell DA,Walmsley SR</p>	<p>Year 2023</p>

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