

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

Product Details		
Size	100 μg	
Species Reactivity	Human	
Host/Isotype	Mouse / IgG1, kappa	
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™	
Class	Monoclonal	
Туре	Antibody	
Clone	eBioCB16 (CB16)	
Conjugate	Biotin	
Form	Liquid	
Concentration	0.5 mg/mL	
Purification	Affinity chromatography	
Storage buffer	PBS, pH 7.2, with 0.1% gelatin	
Contains	0.09% sodium azide	
Storage conditions	4° C, store in dark, DO NOT FREEZE!	
RRID	AB_529489	

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 μg/test	8 Publications
T-Cell Activation (TCA)	-	1 Publication

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 cellmediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.

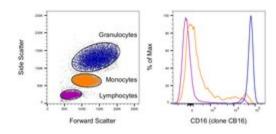
Applications Reported: This eBioCB16 (CB16) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioCB16 (CB16) antibody has been tested by flow cytometric analysis of normal normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

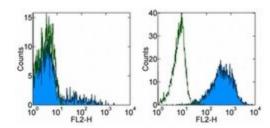
Advanced Verification Data



CD16 Antibody (13-0168-82)

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. Relative expression validation info.

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



CD16 Antibody (13-0168-82) in Flow

Staining of normal human peripheral blood cells with 0.06 μ g of Mouse IgG1 K Isotype Control Biotin (Product # 13-4714-85) (open histogram) or 0.06 μ g of Anti-Human CD16 Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte (left) or granulocyte (right) gates were used for analysis.

View more figures on thermofisher.com

■ 11 References

Immunocytochemistry (2)

OncoTargets and therapy

A DNA vaccine encoding mutated HPV58 mE6E7-Fc-GPI fusion antigen and GM-CSF and B7.1.

"Published figure using CD16 monoclonal antibody (Product # 13-0168-82) in Immunofluorescence"

Authors: Wang H, Yu J, Li L

Species Not Applicable

Dilution Not Cited

Year 2015

Arthritis research & therapy

Decreased plasma levels of soluble CD18 link leukocyte infiltration with disease activity in spondyloarthritis.

"Published figure using CD16 monoclonal antibody (Product # 13-0168-82) in Immunofluorescence"

Authors: Kragstrup TW, Jalilian B, Hvid M, Kjærgaard A, Østgård R, Schiøttz-Christensen B, Jurik AG, Robinson WH, Vorup-Jensen T, Deleuran B

Species Not Applicable

DilutionNot Cited

Year 2014

Flow Cytometry (8)

Journal of immunology research

Circulating Neutrophils of Nonalcoholic Steatohepatitis Patients Show an Activated Phenotype and Suppress T Lymphocytes Activity.

"Published figure using CD16 monoclonal antibody (Product # 13-0168-82) in Flow Cytometry"

Authors: Antonucci L, Porcu C, Timperi E, Santini SJ, Iannucci G, Balsano C

Species Not Applicable

Dilution Not Cited

Year 2021

Arthritis research & therapy

CD14⁺CD16⁻ monocytes are the main precursors of osteoclasts in rheumatoid arthritis via expressing Tyro3TK.

"Published figure using CD16 monoclonal antibody (Product # 13-0168-82) in Flow Cytometry" Authors: Xue J,Xu L,Zhu H,Bai M,Li X,Zhao Z,Zhong H,Cheng G,Li X,Hu F,Su Y

Species Not Applicable

Dilution Not Cited

Year 2020

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

TCA (1)

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