

CD32 Monoclonal Antibody (6C4 (CD32)), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	6C4 (CD32)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_1311188

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	2 Publications
Functional Assay (FN)	Assay-Dependent	-
Inhibition Assays (IA)	-	1 Publication
Blocking Assay (BLOCK)	-	2 Publications

Product Specific Information

Description: This 6C4 monoclonal antibody reacts with human CD32 (also known as Fc gammaRII). This antibody recognizes two isoforms of the receptor, Fc gammaRIIA and Fc gammaRIIB. These 40-kDa polymorphic transmembrane glycoproteins are expressed on B cells, granulocytes, monocytes, macrophages, and platelets. Moreover, these receptors are detected on natural killer cells. CD32 enables interaction between Fc gammaRII-expressing cells and opsonized antigen or IgG-containing immune complexes. Both receptors exhibit low affinity towards IgG and play a role in inflammation and autoimmune disease. This clone has been reported to inhibit Ig binding in a rosette blocking assay.

Applications Tested: This 6C4 (CD32) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

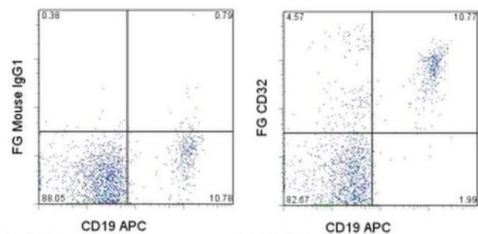
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD32 Monoclonal Antibody (6C4 (CD32)), Functional Grade, eBioscience™



CD32 Antibody (16-0329-81) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0199-42) and 0.5 μg of Mouse IgG1 K Isotype Control Functional Grade Purified (Product # 16-4714-82) (left) or 0.5 μg of Anti-Human CD32 Functional Grade Purified (right) followed by F (ab')₂ Anti-Mouse IgG PE (Product # 12-4010-82). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

<p>PloS one</p> <p>Mechanisms controlling the effects of bevacizumab (avastin) on the inhibition of early but not late formed corneal neovascularization.</p> <p>"Published figure using CD32 monoclonal antibody (Product # 16-0329-81) in Immunohistochemistry"</p> <p>Authors: Chen WL,Chen YM,Chu HS,Lin CT,Chow LP,Chen CT,Hu FR</p>	<p>Year</p> <p>2014</p>
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Flow Cytometry (2)

<p>Journal of neurovirology</p> <p>Immortalization of primary microglia: a new platform to study HIV regulation in the central nervous system.</p> <p>"Published figure using CD32 monoclonal antibody (Product # 16-0329-81) in Flow Cytometry"</p> <p>Authors: Garcia-Mesa Y,Jay TR,Checkley MA,Luttge B,Dobrowolski C,Valadkhan S,Landreth GE,Karn J,Alvarez-Carbonell D</p>	<p>Year</p> <p>2017</p>
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<p>mAbs</p> <p>Recombinant H22(scFv) blocks CD64 and prevents the capture of anti-TNF monoclonal antibody. A potential strategy to enhance anti-TNF therapy.</p> <p>"16-0329 was used in Flow cytometry/Cell sorting to demonstrate the specific blocking of CD64 by H22(scFv) could be used as a mechanism for potentiating the effect of anti-TNF antibodies."</p> <p>Authors: Hristodorov D,Mladenov R,Brehm H,Fischer R,Barth S,Thepen T</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Human</p>
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Inhibition Assays (1)

<p>Frontiers in immunology</p> <p>IFN Enhances CD64-Potentiated Phagocytosis of <i>Treponema pallidum</i> Opsonized with Human Syphilitic Serum by Human Macrophages.</p> <p>"16-0329-81 was used in Inhibition Assays to determine the role of IFN-activated macrophages in early syphilis."</p> <p>Authors: Hawley KL,Cruz AR,Benjamin SJ,La Vake CJ,Cervantes JL,LeDoyt M,Ramirez LG,Mandich D,Fiel-Gan M,Caimano MJ,Radolf JD,Salazar JC</p>	<p>Year</p> <p>2019</p> <p>Species</p> <p>Human</p>
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More applications with references on thermofisher.com

BLOCK (2)

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