

CD16/CD32 Monoclonal Antibody (93), Functional Grade, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	93
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_468898

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	26 Publications
Neutralization (Neu)	Assay-Dependent	3 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication
Inhibition Assays (IA)	-	2 Publications
Blocking Assay (BLOCK)	-	3 Publications

Product Specific Information

Description: The 93 monoclonal antibody reacts with an epitope shared by mouse CD16 and CD32. CD16 (Fc gamma III Receptor) and CD32 (Fc gamma II Receptor) are the low affinity receptors for the mouse IgG Fc portion and are expressed by B cells, monocyte/macrophages, NK cells, and neutrophils.

Applications Reported: The 93 antibody has been reported for use in flow cytometric analysis. 93 has also been reported in blocking of Fc-mediated reactions in functional studies.

Applications Tested: The 93 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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.

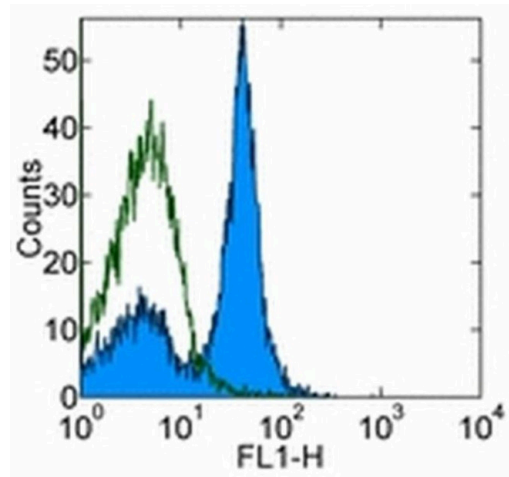
Filtration: 0.2 µm post-manufacturing filtered.

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 CD16/CD32 Monoclonal Antibody (93), Functional Grade, eBioscience™



CD16/CD32 Antibody (16-0161-82) in Flow
Staining of BALB/c splenocytes with 0.25 μg Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 μg Anti-Mouse CD16 /CD32 Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

Flow Cytometry (26)

<p>Viruses</p> <p>Tripartite-Motif 21 (TRIM21) Deficiency Results in a Modest Loss of Herpes Simplex Virus (HSV)-1 Surveillance in the Trigeminal Ganglia Following Cornea Infection.</p> <p>"16-0161-82 was used in Flow cytometry/Cell sorting to show that absence of TRIM21 results in a modest, but significant, increase in HSV-1 titers recovered from the TG of TRIM21 KO mice during acute infection."</p> <p>Authors: Berube A,Gmyrek GB,Royer DJ,Carr DJJ</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Cell death and differentiation</p> <p>Ileal immune tonus is a prognosis marker of proximal colon cancer in mice and patients.</p> <p>"16-0161 was used in Flow cytometry/Cell sorting to suggest that chemotherapy inversely shapes the immune profile of the ileum-tumor axis, influencing clinical outcome."</p> <p>Authors: Picard M,Yonekura S,Slowicka K,Petta I,Rauber C,Routy B,Richard C,Iebba V,Tidjani Alou M,Becharef S,Ly P,Pizzato E,Lehmann CHK,Amon L,Klein C,Opolon P,Gomperts Boneca I,Scoazec JY,Hollebecque A,Malka D,Ghiringhelli F,Dudziak D,Berx G,Vereecke L,van Loo G,Kroemer G,Zitvogel L,Roberti MP</p>	<p>Year 2021</p> <p>Species Mouse</p>

View more Flow references on thermofisher.com

Neutralization (3)

<p>Nature communications</p> <p>Neutrophil P2X7 receptors mediate NLRP3 inflammasome-dependent IL-1 secretion in response to ATP.</p> <p>"16-0161 was used in Blocking experiments to investigate the role of extracellular ATP in activating inflammasome signalling in neutrophils."</p> <p>Authors: Karmakar M,Katsnelson MA,Dubyak GR,Pearlman E</p>	<p>Year 2016</p> <p>Species Human Mouse</p>
---	---

<p>Breast cancer research : BCR</p> <p>Evidence for a multipotent mammary progenitor with pregnancy-specific activity.</p> <p>"16-0161 was used in Blocking experiments to provide data to show the existence of multi-potent mammary progenitor cells that have pregnancy-specific function."</p> <p>Authors: Kaanta AS,Virtanen C,Selfors LM,Brugge JS,Neel BG</p>	<p>Year 2014</p> <p>Species Mouse</p> <p>Dilution 1:25</p>
---	--

View more Neu references on thermofisher.com

More applications with references on thermofisher.com

- FN (1)
- IA (2)
- BLOCK (3)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.