

# CD16/CD32 Monoclonal Antibody (93), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse, Human
Host/Isotope	Rat / IgG2a, lambda
Class	Monoclonal
Type	Antibody
Clone	93
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467133

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	233 Publications
Functional Assay (FN)	Assay-Dependent	5 Publications
Neutralization (Neu)	Assay-Dependent	134 Publications
Blocking Assay (BLOCK)	-	6 Publications
Immunofluorescence (IF)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	5 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Inhibition Assays (IA)	-	13 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## 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. For blocking of Fc receptors in flow cytometric analysis, pre-incubate the cells with 0.5-1 µg of purified anti-CD16/CD32 per million cells for 5-10 minutes on ice prior to staining. (Please use Functional Grade purified 93, cat. 16-0161, in functional assays.).

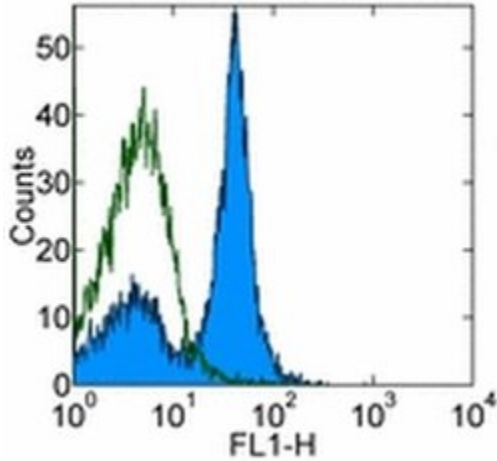
Applications Tested: The 93 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For CD16/CD32 Monoclonal Antibody (93), eBioscience™



#### CD16/CD32 Antibody (14-0161-82) in Flow

Staining of BALB/c splenocytes with 0.25 µg Purified Rat IgG2a Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg Anti-Mouse CD16/32 Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

## Flow Cytometry (233)

Clinical and translational allergy

### The efficacy of oral and subcutaneous antigen-specific immunotherapy in murine cow's milk- and peanut allergy models.

"14-0161 was used in Flow cytometry/Cell sorting to compare oral immunotherapy and subcutaneous immunotherapy models for cows milk and peanut allergy."

Authors: Vonk MM, Wagenaar L, Pieters RHH, Knippels LMJ, Willemsen LEM, Smit JJ, van Esch BCAM, Garssen J

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

Frontiers in molecular neuroscience

### Increased White Matter Inflammation in Aging- and Alzheimer's Disease Brain.

"14-0161 was used in Flow cytometry/Cell sorting to indicate that microglia-induced neuroinflammation is predominant in the white matter of aging mice and humans as well as in EOAD brains."

Authors: Raj D, Yin Z, Breur M, Doorduyn J, Holtman IR, Olah M, Mantingh-Otter IJ, Van Dam D, De Deyn PP, den Dunnen W, Eggen BJL, Amor S, Boddeke E

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

## Immunohistochemistry (Frozen) (5)

Frontiers in molecular neuroscience

### Low-Fat Diet With Caloric Restriction Reduces White Matter Microglia Activation During Aging.

"14-0161 was used in Immunohistochemistry on frozen tissues to study the impact of both high-fat and low-fat diets on the microglia of rats."

Authors: Yin Z, Raj DD, Schaafsma W, van der Heijden RA, Kooistra SM, Reijne AC, Zhang X, Moser J, Brouwer N, Heeringa P, Yi CX, van Dijk G, Laman JD, Boddeke EWGM, Eggen BJL

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2020

Immunology

### Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses.

"14-0161 was used in Immunohistochemistry to identify a novel pathway of cross-talk between macrophages and dendritic cells."

Authors: Xu Y, Liu Y, Yang C, Kang L, Wang M, Hu J, He H, Song W, Tang H

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

[View more IHC \(F\) references on thermofisher.com](#)

## More applications with references on thermofisher.com

Neu (134)

IA (13)

FN (5)

IHC (5)

IF (5)

BLOCK (6)

IHC (P) (2)

Misc (1)

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