CD16/CD32 Monoclonal Antibody (93), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Rat, Hamster, Mouse, Human
Host/Isotype	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
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	394 Publications
Neutralization (Neu)	Assay-Dependent	135 Publications
Functional Assay (FN)	Assay-Dependent	6 Publications
Inhibition Assays (IA)	-	16 Publications
Blocking Assay (BLOCK)	-	6 Publications
Miscellaneous PubMed (Misc)	-	2 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. 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.).

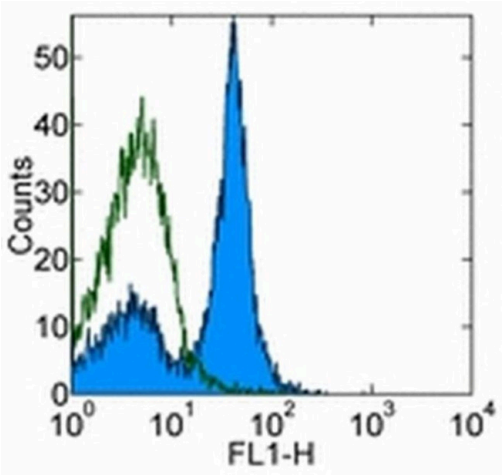
Applications Tested: The 93 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined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

578 References

Immunohistochemistry (10)

Bone research

IgSF11 regulates osteoclast differentiation through association with the scaffold protein PSD-95.

"14-0161-82 was used in Immunohistochemistry to reveal a critical role for IgSF11 during osteoclast differentiation and suggest a role for IgSF11 in a receptor- and signal transduction molecule-containing protein complex."

Authors: Kim H,Takegahara N,Walsh MC,Middleton SA,Yu J,Shirakawa J,Ueda J,Fujihara Y,Ikawa M,Ishii M,Kim J, Choi Y

Year
2021

Species
Mouse

Journal of neuroinflammation

LncGBP9/miR-34a axis drives macrophages toward a phenotype conducive for spinal cord injury repair via STAT1/STAT6 and SOCS3.

"14-0161 was used in Immunohistochemistry-immunofluorescence to demonstrate a novel mechanism by which the lncGBP9/miR-34a axis modulates STAT1/ STAT6 to affect macrophage polarization via SOCS3."

Authors: Zhou J,Li Z,Wu T,Zhao Q,Zhao Q,Cao Y

Year
2020

Species
Mouse

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

Human molecular genetics

Loss of MyD88 alters neuroinflammatory response and attenuates early Purkinje cell loss in a spinocerebellar ataxia type 6 mouse model.

"14-0161 was used in Immunohistochemistry on paraffin embedded tissues to suggest that early neuroinflammatory response may play an important role in the pathogenesis of SCA6."

Authors: Aikawa T,Mogushi K,Iijima-Tsutsui K,Ishikawa K,Sakurai M,Tanaka H,Mizusawa H,Watase K

Year
2015

Species
Mouse

Journal of immunology (Baltimore, Md. : 1950)

Enhanced susceptibility to Leishmania infection in resistant mice in the absence of immediate early response gene X-1.

"14-0161 was used in Immunohistochemistry on paraffin embedded tissues to explore a potential role for immediate early response gene X-1 in control of the susceptibility to Leishmania major infection."

Authors: Akilov OE,Ustyugova IV,Zhi L,Hasan T,Wu MX

Year
2009

Species
Mouse

More applications with references on thermofisher.com

IHC (F) (7) | Flow (394) | Neu (135) | FN (6) | IA (16) | BLOCK (6) | Misc (2)