

Product Information

Contents: Affinity Purified anti-mouse CD16/32 - blocks Fc binding

Catalog Number: 14-0161

Sizes: 50 ug, 100 ug, 500 ug, 1 mg

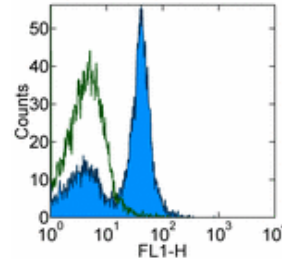
Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 93

Isotype: Rat IgG2a, λ



Staining of BALB/c splenocytes with 0.25 µg of Purified Rat IgG2a Iso Cntrl (cat. 14-4321) (open histogram) or 0.25 µg of Purified anti-mouse CD16/32 (93) (colored histogram) followed by FITC Anti-Rat IgG (cat. 11-4811). Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0161	FITC anti-mouse CD16/32 - blocks Fc binding	488	518	FC
12-0161	PE anti-mouse CD16/32 - blocks Fc binding	488	575	FC
13-0161	Biotin anti-mouse CD16/32 - blocks Fc binding	N/A	N/A	FC
14-0161	Affinity Purified anti-mouse CD16/32 - blocks Fc binding	N/A	N/A	FA FC
16-0161	Functional Grade* Purified anti-mouse CD16/32 - blocks Fc binding	N/A	N/A	FA FC
17-0161	APC anti-mouse CD16/32 - blocks Fc binding	633	660	FC
25-0161	PE-Cy7 anti-mouse CD16/32 - blocks Fc binding	488	760	FC
35-0161	Phycoerythrin-Cy5.5 (PE-Cy5.5) anti-mouse CD16/32 - blocks Fc binding	488	690	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The 93 monoclonal antibody reacts with an epitope shared by mouse CD16 and CD32. CD16 (Fcγ III Receptor) and CD32 (Fcγ 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.

Usage

For research use only, not for diagnostic or therapeutic use. 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 splenocyte suspensions. This can be used at less than or equal to 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 11-0161 FITC anti-mouse CD16/32 - blocks Fc binding (clone 93)
- Cat. 12-0161 PE anti-mouse CD16/32 - blocks Fc binding (clone 93)

Cat. 13-0161 Biotin anti-mouse CD16/32 - blocks Fc binding (clone 93)
Cat. 16-0161 Functional Grade Purified anti-mouse CD16/32 - blocks Fc binding (clone 93)
Cat. 17-0161 APC anti-mouse CD16/32 - blocks Fc binding (clone 93)
Cat. 25-0161 PE-Cy7 anti-mouse CD16/32 - blocks Fc binding (clone 93)
Cat. 35-0161 Phycoerythrin-Cy5.5 (PE-Cy5.5) anti-mouse CD16/32 - blocks Fc binding (clone 93)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Oliver, A. M., J. C. Grimaldi, et al. (1999). "Independently ligating CD38 and Fc gammaRIIB relays a dominant negative signal to B cells." *Hybridoma* 18(2): 113-9.

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