#### **Brilliant Violet 421™ anti-mouse CD16/32**

Catalog # / Size: 1106660 / 50 μg

1106655 / 125 µl

Clone: 93

**Isotype:** Rat IgG2a,  $\lambda$ 

Immunogen: Sorted pre-B cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 421<sup>™</sup> under optimal conditions. The solution is free of unconjugated Brilliant Violet 421<sup>™</sup> and

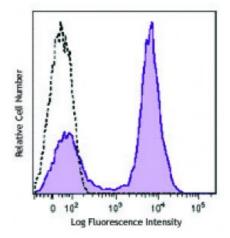
unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



C57BL/6 mouse splenocytes were stained with CD16/32 (clone 93) Brilliant Violet 421™ or rat IgG2a Brilliant Violet 421™ isotype

control.

### **Applications:**

**Applications:** Flow Cytometry

Recommended Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet  $421^{\,\mathrm{TM}}$  excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet  $421^{\,\mathrm{TM}}$  is a trademark of Sirigen Group Ltd.

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Application Notes:

Clone 93 can be used for blocking of CD16/CD32 interactions with the Fc domain of immunoglobulins, but is not the same clone as 2.4G2.

The 93 mAb is specific to the common epitope of CD16/CD32. Additional reported applications (for the relevant formats) include: immunoprecipitation1 and blocking of Fc-mediated reactions in functional studies  $^{2,4,23}$ . It is useful for blocking non-specific binding of immunoglobulin to Fc receptors. For blocking of Fc receptors in flow cytometric analysis, pre-incubate the cells with purified anti-CD16/CD32 antibody ( $\leq$ 1.0 microg per  $10^6$  cells in 100 microL volume) for 5-10 minutes on ice prior to immunostaining. The LEAF purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 101310). For highly sensitive assays, we recommend Ultra-LEAF purified antibody (Cat. No. 101330) with a lower endotoxin limit than standard LEAF purified antibodies (Endotoxin <0.01 EU/microg).

## Application References:

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#### **Description:**

CD16 is low affinity IgG Fc receptor III (FcR III) and CD32 is FcR II. CD16/CD32 are expressed on B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. The Fc receptors bind antibody-antigen immune complexes and mediate adaptive immune responses.

# Antigen References:

- 1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Unkeless JC. 1989. J. Clin. Invest. 83:355.
- 3. Qiu WQ, et al. 1990. Science 248:732.