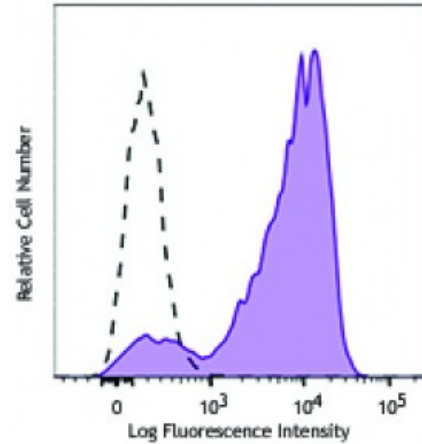


Brilliant Violet 650® anti-mouse CD16.2 (FcγRIV)

Catalog # / Size: 1347665 / 50 µg
Clone: 9E9
Isotype: Hamster IgG
Immunogen: FCγR4 Fc domain fusion with IgG1 Fc
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration: 0.2



C57BL/6 mouse bone marrow cells were stained with CD16.2 (clone 9E9) Brilliant Violet 650™ (filled histogram) or Armenian hamster IgG Brilliant Violet 650™ isotype control (open histogram). Data shown was gated on the myeloid population.

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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats of this clone) include: blocking of FcγRIV function¹ and inhibition of immune complex binding^{1,2}. The LEAF™ or Ultra-LEAF™ purified antibody (Endotoxin < EU/microg, Azide-Free, 0.2 µm filtered) is recommended for functional assays ([contact our custom solutions team](#)).

Application References: 1. Mancardi DA, *et al.* 2008. *J. Clin. Invest* 118:3738. (FC, Block)
 2. Nimmerjahn F, *et al.* 2005. *Immunity* 23:41.

Description: FcγRIV, also known as CD16.2, is an intermediate-affinity activating receptor for IgG2a and IgG2b. CD16.2 is the mouse homolog of human FcγRIIIA. CD16.2 is a low-affinity IgE receptor for all allotypes and the ligation of FcγRIV by antigen-IgE immune complexes promotes macrophage-mediated phagocytosis and is involved in lung inflammation.

Antigen
References:

1. Mechetina LV, *et al.* 2002. *Immunogenetics* 54:463-8.
2. Nimmerjahn F, *et al.* 2005. *Immunity* 23:41-51.
3. Seeling M, *et al.* 2013. *Proc. Natl. Acad. Sci.* 110:10729.