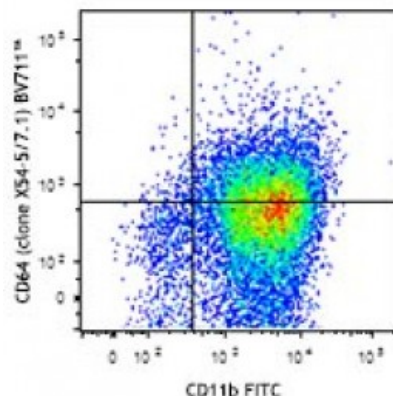


Brilliant Violet 711™ anti-mouse CD64 (FcγRI)

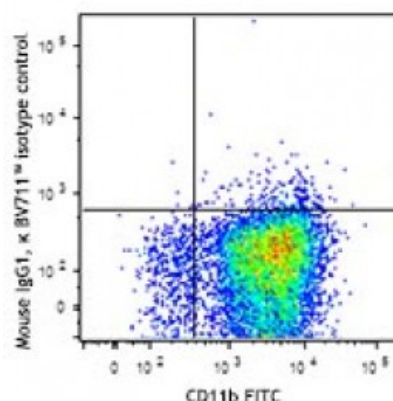
Catalog # / Size:	1296555 / 50 µg
Clone:	X54-5/7.1
Isotype:	Mouse IgG1, κ
Immunogen:	BALB/c mouse FcγRI-human IgG Fc fusion protein.
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ 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 CD11b FITC and CD64 (clone X54-5/7.1) Brilliant Violet 711™ (top) or mouse IgG1, κ Brilliant Violet 711™ isotype control (bottom). Data shown was gated on myeloid cells.

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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.

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purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes: The X54-5/7.1 antibody reacts with mouse strains carrying CD64a and b alleles but not CD64d. X54-5/7.1 recognizes a conformational determinant formed between domains 2 and 3. Additional reported application (for relevant formats) include: immunoprecipitation¹. Clone X54-5/7.1 is not found to be useful for Western blots¹.

Application References:

1. Tan PS, *et al.* 2003. *J. Immunol.* 170:2549. (IP)
2. Ingersoll MA, *et al.* 2010. *Blood* 115:e10. (FC)
3. Ozeri E, *et al.* 2012. *J. Immunol.* 189:146. [PubMed](#)
4. Richardson ML, *et al.* 2014. *PLoS Negl Trop Dis.* 8:2825. [PubMed](#)

Description: CD64 is a 72 kD single chain type I glycoprotein also known as FcγRI and FcRI. CD64 is a member of the immunoglobulin superfamily and is expressed on monocytes/macrophages, dendritic cells, and mast cells. The expression can be upregulated by IFN-γ stimulation. CD64 binds IgG immune complex. It plays a role in antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC).