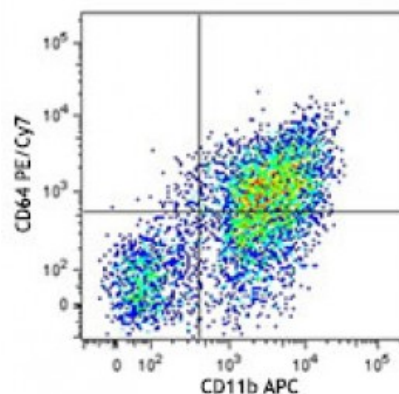


PE/Cy7 anti-mouse CD64 (FcγRI)

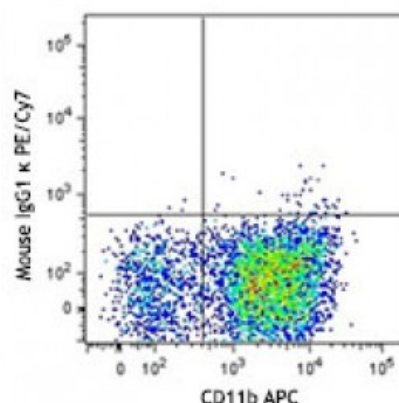
Catalog # / Size:	1296570 / 100 µg 1296565 / 25 µg
Clone:	X54-5/7.1
Isotype:	Mouse IgG1, κ
Immunogen:	BALB/c mouse FcγRI-human IgG Fc fusion protein.
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse bone marrow cells were stained with CD11b APC and CD64 (clone X54-5/7.1) PE/Cy7 (top) or mouse IgG1, κ PE/Cy7 isotype control (bottom). Data shown was gated on myeloid cell 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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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: immunoprecipitation ¹ . Clone X54-5/7.1 is not found to be useful for Western blots ¹ .
Application References:	1. Tan PS, <i>et al.</i> 2003. <i>J. Immunol.</i> 170:2549. (IP) 2. Ingersoll MA, <i>et al.</i> 2010. <i>Blood</i> 115:e10. (FC) 3. Ozeri E, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:146. PubMed 4. Richardson ML, <i>et al.</i> 2014. <i>PLoS Negl Trop Dis.</i> 8:2825. PubMed



Description: CD64 is a 72 kD single chain type I glycoprotein also known as FcγRI and FcR1. 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).