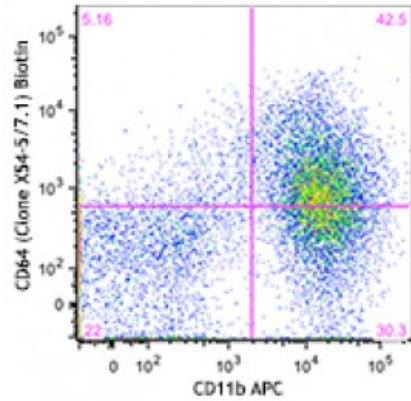


Biotin anti-mouse CD64 (FcγRI)

Catalog # / Size: 1296590 / 100 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 biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



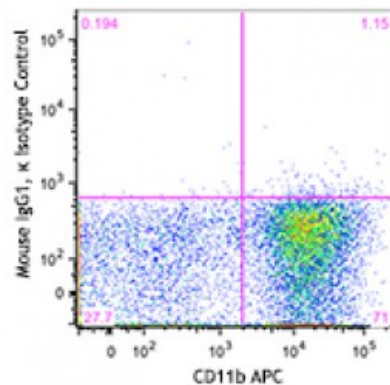
C57BL/6 mouse bone marrow cells were stained with CD11b (clone M1/70) APC and biotinylated CD64 (clone X54-5/7.1) (top) or mouse IgG1, κ isotype control (bottom) followed by Streptavidin-PE.

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 ≤0.125 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: 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).