

Product Data Sheet

Purified anti-mouse CD64 (FcγRI)

Catalog # / Size: 139301 / 50 µg
 139302 / 500 µg

Clone: X54-5/7.1

Isotype: Mouse IgG1, κ

Immunogen: BALB/c mouse FcγRI-human IgG Fc fusion protein

Reactivity: Mouse CD64 a and b alloantigens

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - *Quality tested*
 IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl 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 CD64 d. Additional reported application (for relevant formats) include: immunoprecipitation¹.

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.

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).

Related Products:

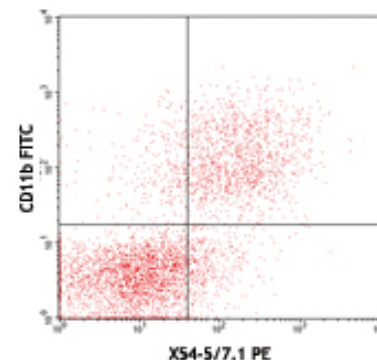
Product
 Purified Mouse IgG1, κ Isotype Ctrl

Clone
 MOPC-21

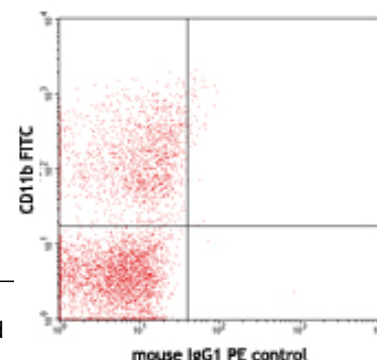
Application

FC, ICFC,
 ICC, IF, IHC,
 IP, WB
 FC, ICC, ICFC
 FC, ICFC

Cell Staining Buffer
 RBC Lysis Buffer (10X)



C57BL/6 bone marrow cells stained with CD11b FITC and purified X54-5/7.1 conjugated with PE



C57BL/6 bone marrow cells stained with CD11b FITC and mouse IgG1 PE isotype control



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