

## PE anti-mouse CD64 (Fc $\gamma$ RI)

**Catalog # / Size:** 139303 / 25  $\mu$ g  
139304 / 100  $\mu$ g

**Clone:** X54-5/7.1

**Isotype:** Mouse IgG1,  $\kappa$

**Immunogen:** BALB/c mouse Fc $\gamma$ RI-human IgG Fc fusion protein

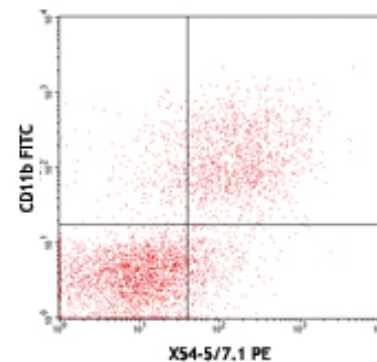
**Reactivity:** Mouse CD64 a and b alloantigens

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

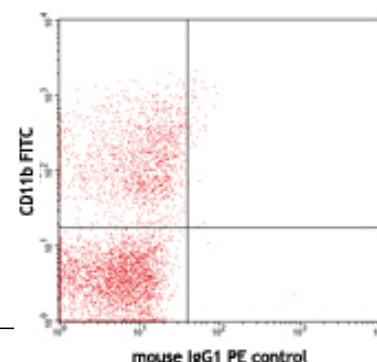
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



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



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

## Applications:

**Applications:** FC - Quality tested

**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  $\leq 1.0$   $\mu$ g per million cells in 100  $\mu$ l 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: immunoprecipitation<sup>1</sup>.

**Application References:** 1. Tan PS, *et al.* 2003. *J. Immunol.* 170:2549. (IP)  
2. Ingersoll MA, *et al.* 2010. *Blood* 115:e10. (FC)

**Description:** CD64 is a 72 kD single chain type I glycoprotein also known as Fc $\gamma$ RI 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- $\gamma$  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	Clone	Application
	PE Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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