

# CD64 Monoclonal Antibody (X54-5/7.1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	X54-5/7.1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Immunogen	BALB/c mouse CD64-human IgG Fc fusion protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735016

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	5 Publications

## Product Specific Information

**Description:** This X54-5/7.1 monoclonal antibody recognizes allelic variants a and b of mouse CD64, a high affinity Fc binding receptor also known as Fc-gammaR1 or Fcgr1. Alloform a is present in the following mouse strains: C57BL/6, BALB/c, DBA/2, and alloform b in strains: C3H/HeJ, CBA/J, NZW, SJL/J, 129/SvJ. In addition this antibody has been reported positive in strains: AKR, ALR, BUB, C58, CE, HRS,MRL, MON, NZB, NZO, NZW, PL, SJL, ST and SWR. This clone X54-5/7.1 will not recognize the allelic variant d, present in NOD/Lt mice. This antibody has been reported to stain RAW264.7 cell line.

**Applications Reported:** This X54-5/7.1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This X54-5/7.1 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

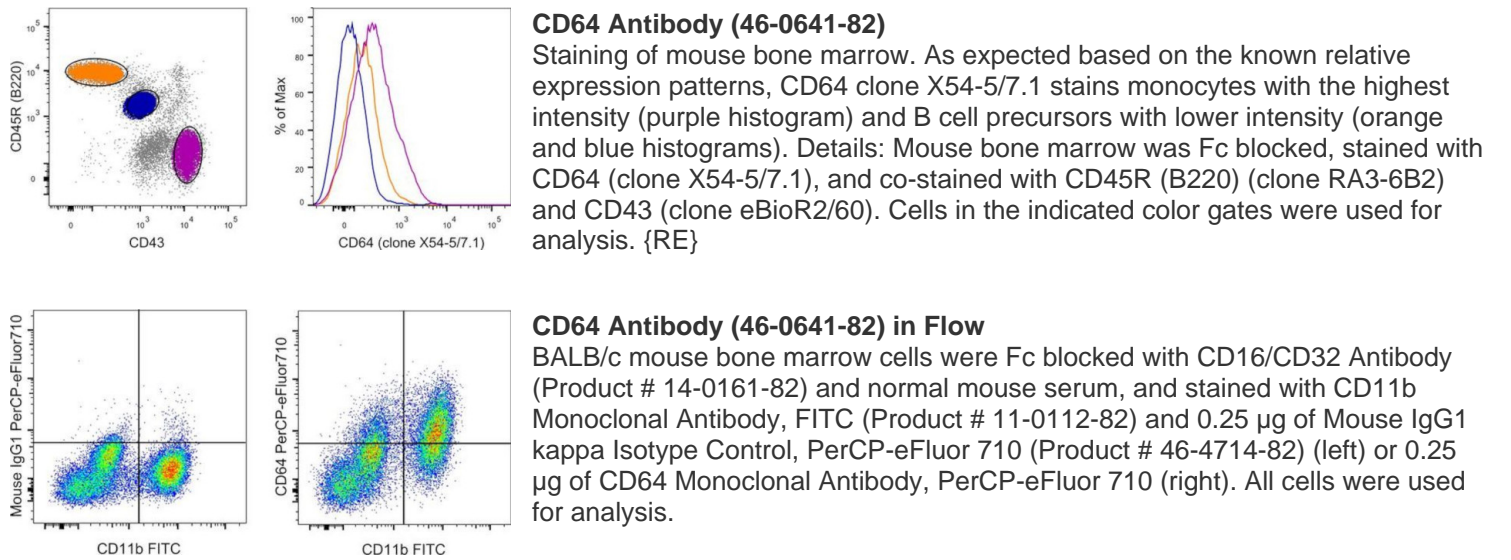
PerCP-eFluor™ 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser

Product Images For CD64 Monoclonal Antibody (X54-5/7.1), PerCP-eFluor™ 710, eBioscience™



5 References

Flow Cytometry (5)

Nature	<b>Neonatal imprinting of alveolar macrophages via neutrophil-derived 12-HETE.</b>	Year 2023
	"46-0641-82 was used in Flow cytometry/Cell sorting to highlight the complexity of prenatal RTM programming and reveal their dependency on in trans eicosanoid production by neutrophils for lifelong self-renewal." Authors: Pernet E,Sun S,Sarden N,Gona S,Nguyen A,Khan N,Mawhinney M,Tran KA,Chronopoulos J,Amberkar D, Sadeghi M,Grant A,Wali S,Prevel R,Ding J,Martin JG,Thanasalasuriar A,Yipp BG,Barreiro LB,Divangahi M	Species Mouse
Science advances	<b>Circulating hemopexin modulates anthracycline cardiac toxicity in patients and in mice.</b>	Year 2022
	"Published figure using CD64 monoclonal antibody (Product # 46-0641-82) in Flow Cytometry" Authors: Liu J,Lane S,Lall R,Russo M,Farrell L,Debreli Coskun M,Curtin C,Araujo-Gutierrez R,Scherrer-Crosbie M, Trachtenberg BH,Kim J,Tolosano E,Ghigo A,Gerszten RE,Asnani A	

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