

IgM Monoclonal Antibody (eB121-15F9), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eB121-15F9
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784873

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

Product Specific Information

Description: The eB121-15F9 monoclonal antibody reacts with the mu heavy chain of mouse IgM. It does not react with other classes of mouse immunoglobulin including IgD, IgG or IgA. IgM is expressed intracellularly, during early stages of B lymphopoiesis, and then on the surface of more mature B cells in the bone marrow and peripheral B cells. Fluorochrome conjugated eB121-15F9 can be used as a detection secondary for mouse IgM.

Applications Reported: This eB121-15F9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eB121-15F9 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

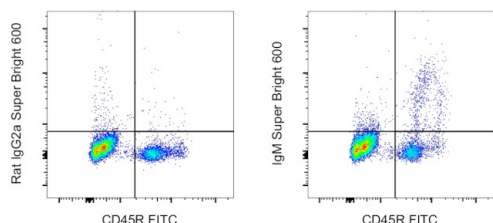
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For IgM Monoclonal Antibody (eB121-15F9), Super Bright™ 600, eBioscience™



IgM Antibody (63-5890-82) in Flow

C57BL/6 mouse bone marrow cells were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) (left) or 0.25 μ g of IgM Monoclonal Antibody, Super Bright 600 (right). Total cells were used for analysis.

[View more figures on thermofisher.com](#)

2 References

Flow Cytometry (2)

Nature communications

Reciprocal regulation of RIG-I and XRCC4 connects DNA repair with RIG-I immune signaling.

"Published figure using IgM monoclonal antibody (Product # 63-5890-82) in Flow Cytometry"

Authors: Guo G, Gao M, Gao X, Zhu B, Huang J, Tu X, Kim W, Zhao F, Zhou Q, Zhu S, Wu Z, Yan Y, Zhang Y, Zeng X, Zhu Q, Yin P, Luo K, Sun J, Deng M, Lou Z

Year
2021

Journal of immunology (Baltimore, Md. : 1950)

The histone methyltransferase MMSET regulates class switch recombination.

"Published figure using IgM monoclonal antibody (Product # 63-5890-82) in Flow Cytometry"

Authors: Pei H, Wu X, Liu T, Yu K, Jelinek DF, Lou Z

Year
2013

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