

MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Super Bright 645, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright 645, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	M5/114.15.2
Conjugate	Super Bright 645
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_2662402

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	15 Publications
Immunoprecipitation (IP)	-	1 Publication

Product Specific Information

Description: The M5/114.15.2 monoclonal antibody reacts with the mouse major histocompatibility complex class II, both I-A and I-E subregion-encoded glycoproteins (I-A b, I-A d, I-A d, I-E d, I-E d, I-E k, not I-A f, I-A k, or I-A s). It detects a polymorphic determinant present on B cells, monocytes, macrophages, dendritic cells, and activated T lymphocytes from mice carrying the H-2 b, H-2 d, H-2 q, H-2 p, H-2 r and H-2 u but not from mice carrying the H-2 s or H-2 f haplotypes. The M5/114 mAb is reported to inhibit I-Arestricted T cell responses of the H-2 b, H-2 d, H-2 q, H-2 u but not H-2 f, H-2 k, or H-2 s haplotypes.

Applications Reported: This M5/114.15.2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

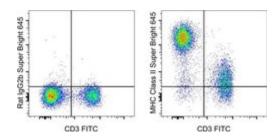
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 405 nm; Emission: 645 nm; Laser: Violet Laser

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

Product Images For MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Super Bright 645, eBioscience™



MHC Class II (I-A/I-E) Antibody (64-5321-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD3 FITC (Product # 11-0031-82) and Rat IgG2b K Isotype Control (Product # 64-4031-82) (left) or 0.06 μg of Anti-Mouse MHC Class II (I-A/I-E) Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

□ 16 References

Flow Cytometry (15)

International journal of biological sciences

MiR-103 protects from recurrent spontaneous abortion via inhibiting STAT1 mediated M1 macrophage polarization.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 64-5321-82) in Flow Cytometry" Authors: Zhu X,Liu H,Zhang Z,Wei R,Zhou X,Wang Z,Zhao L,Guo Q,Zhang Y,Chu C,Wang L,Li X

Species Not Applicable

Dilution Not Cited

Year 2021

Frontiers in immunology

Dietary Glucose Consumption Promotes RALDH Activity in Small Intestinal CD103⁺CD11b⁺ Dendritic Cells.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 64-5321-82) in Flow Cytometry" Authors: Ko HJ,Hong SW,Verma R,Jung J,Lee M,Kim N,Kim D,Surh CD,Kim KS,Rudra D,Im SH

Species Not Applicable

DilutionNot Cited

Year 2021

View more Flow references on thermofisher.com

Immunoprecipitation (1)

Frontiers in cellular and infection microbiology

RON Expression Mediates Lipopolysaccharide-Mediated Dendritic Cell Maturation *via* March-I.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 64-5321-82) in Immunoprecipitation" Authors: Huang L,Fang X,Zhang X,Wu W,Yao H,Fang Q

Species
Not Applicable

Dilution Not Cited

Year 2021

More applications with references on thermofisher.com

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