

# MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Super Bright 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	Super Bright 436
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_2688070

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	16 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 q, 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-A-restricted 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 may 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 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.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass

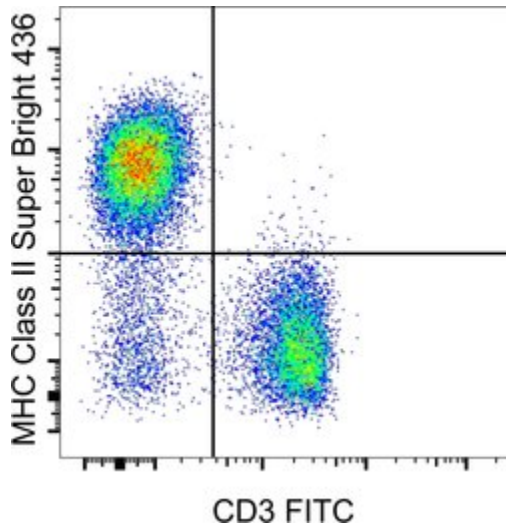
filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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 436, eBioscience™



### MHC Class II (I-A/I-E) Antibody (62-5321-82) in Flow

C57BL/6 mouse splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0031) and 0.06 µg of MHC Class II (I-A/I-E) Monoclonal Antibody, Super Bright 436. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 18 References

### Immunocytochemistry (1)

**Glia**  
**Exosomes derived from microglia exposed to elevated pressure amplify the neuroinflammatory response in retinal cells.**  
"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 62-5321-82) in Immunocytochemistry"  
Authors: Aires ID,Ribeiro-Rodrigues T,Boia R,Catarino S,Girão H,Ambrósio AF,Santiago AR

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

### Flow Cytometry (16)

**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 # 62-5321-82) 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<sup>+</sup>CD11b<sup>+</sup> Dendritic Cells.**  
"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 62-5321-82) 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

**Dilution**  
Not 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 # 62-5321-82) in Immunoprecipitation"  
Authors: Huang L,Fang X,Zhang X,Wu W,Yao H,Fang Q

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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