

# MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor 532, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor 532, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	Alexa Fluor® 532
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_2811913

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 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 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.

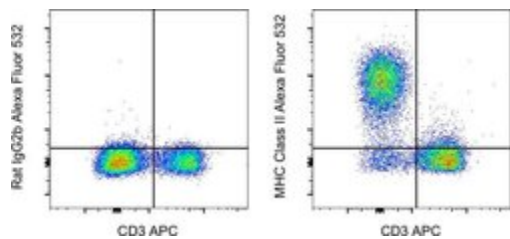
**Applications Tested:** This m5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should 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.

Alexa Fluor 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this

fluorochrome.

Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

## Product Images For MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor 532, eBioscience™



### MHC Class II (I-A/I-E) Antibody (58-5321-82) in Flow

BALB/c mouse splenocytes were stained with CD3e Monoclonal Antibody, APC (Product # 17-0031-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Alexa Fluor 532 (Product # 58-4031-80) (left) or 0.25 µg of MHC Class II Monoclonal Antibody, Alexa Fluor 532 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.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 # 58-5321-82) 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 # 58-5321-82) 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-1.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 58-5321-82) 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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