

MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	eFluor® 450
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_1272204

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	74 Publications
Immunofluorescence (IF)	-	11 Publications
Immunohistochemistry (IHC)	-	5 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.

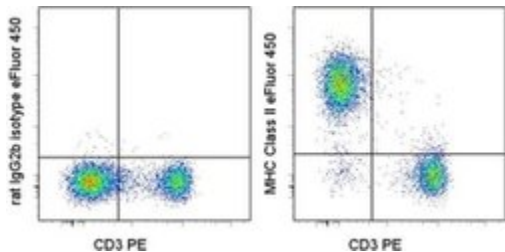
Applications Tested: This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), eFluor 450, eBioscience™



MHC Class II (I-A/I-E) Antibody (48-5321-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e PE (Product # 12-0031-82) and 0.06 µg of Rat IgG2b K Isotype Control eFluor® 450 (Product # 48-4031-82) (left) or 0.06 µg of Anti-Mouse MHC Class II (I-A/I-E) eFluor® 450 (right). Total viable cells were used for analysis.

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

Flow Cytometry (74)

Frontiers in immunology

Prolonged Deleterious Influences of Chemotherapeutic Agent CPT-11 on Resident Peritoneal Macrophages and B1 Cells.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 48-5321-82) in Flow Cytometry"

Authors: Bai WJ, Li CG, Zhang CC, Xu LH, Zeng QZ, Hu B, Hong Z, He XH, Ouyang DY

Species
Not Applicable

Dilution
Not Cited

Year
2019

American journal of translational research

Thiol peroxiredoxin, a novel allergen from *Bombyx mori*, modulates functions of macrophages and dendritic cells.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 48-5321-82) in Flow Cytometry"

Authors: Wang H, Hu W, Liang Z, Zeng L, Li J, Yan H, Yang P, Liu Z, Wang L

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

Immunofluorescence (11)

Frontiers in aging neuroscience

Age Influences Microglial Activation After Cuprizone-Induced Demyelination.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 48-5321-82) in Immunofluorescence"

Authors: Klein B, Mrowetz H, Barker CM, Lange S, Rivera FJ, Aigner L

Species
Not Applicable

Dilution
Not Cited

Year
2019

Glia

Functional antagonism of sphingosine-1-phosphate receptor 1 prevents cuprizone-induced demyelination.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 48-5321-82) in Immunofluorescence"

Authors: Kim S, Bielawski J, Yang H, Kong Y, Zhou B, Li J

Species
Not Applicable

Dilution
Not Cited

Year
2018

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More applications with references on thermofisher.com

IHC (5)

IP (1)

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