

MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	Alexa Fluor® 700
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_494009

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	16 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 µg/test	122 Publications
Immunoprecipitation (IP)	-	2 Publications

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.

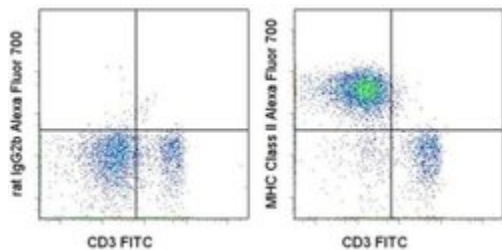
Applications Tested: This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor 700, eBioscience™



MHC Class II (I-A/I-E) Antibody (56-5321-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and staining buffer (autofluorescence) (left) or 0.03 µg of Anti-Mouse MHC Class II (I-A/I-E) Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

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

Immunohistochemistry (16)

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 # 56-5321-82) in Immunohistochemistry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2020

Scientific reports

Intravitreal injection of adenosine A_{2A} receptor antagonist reduces neuroinflammation, vascular leakage and cell death in the retina of diabetic mice.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 56-5321-82) in Immunohistochemistry"

Authors: Aires ID, Madeira MH, Boia R, Rodrigues-Neves AC, Martins JM, Ambrósio AF, Santiago AR

Species
Not Applicable

Dilution
Not Cited

Year
2019

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

Immunocytochemistry (4)

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 # 56-5321-82) 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

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 # 56-5321-82) in Immunohistochemistry"

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Dilution
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2020

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Flow (122)

IP (2)

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