

# MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466662

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 µg/test	75 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	2 Publications
Miscellaneous PubMed (Misc)	-	3 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: M5/114.15.2 has been reported for use in flow cytometric analysis.

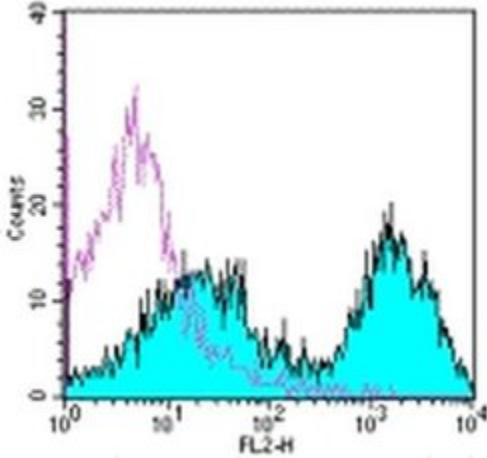
Applications Tested: The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined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

Filtration: 0.2 µm post-manufacturing filtered.

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

### MHC Class II (I-A/I-E) Antibody (13-5321-82) in Flow

Staining of C57BL/6 splenocytes with 0.015 µg of Rat IgG2b K Isotype Control Biotin (Product # 13-4031-82) (open histogram) or 0.015 µg of Anti-Mouse MHC Class II (I-A/I-E) Biotin followed by Streptavidin PE (Product # 12-4317-87) (filled histogram). Total viable cells were used for analysis.



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## Immunohistochemistry (15)

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 # 13-5321-82) in Immunofluorescence"

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<sub>2A</sub> 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 # 13-5321-82) 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](#)

## Immunohistochemistry (PFA fixed) (1)

Laboratory investigation; a journal of technical methods and pathology

### Lymphatic endothelial lineage assemblage during corneal lymphangiogenesis.

"13-5321 was used in Immunofluorescence to determine the precise, regulatory processes necessary for the assembly of proliferating lymphatic endothelial cells."

Authors: Connor AL, Kelley PM, Tempero RM

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

## Immunohistochemistry (Frozen) (2)

Molecular therapy oncolytics

### Intratumoral INF- triggers an antiviral state in GL261 tumor cells: a major hurdle to overcome for oncolytic vaccinia virus therapy of cancer.

"13-5321 was used in Immunohistochemistry to identify microenvironmental factors, which may be decisive for failure or success of oncolytic VACV therapy."

Authors: Kober C, Weibel S, Rohn S, Kirscher L, Szalay AA

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

## More applications with references on thermofisher.com

ICC/IF (4)

Flow (75)

ELISA (1)

IP (2)

Misc (3)

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