Performance guarenteed

# MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Functional Grade, eBioscience™

Product	Details
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Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	M5/114.15.2
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469098

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	18 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 μg/test	65 Publications
Immunoprecipitation (IP)	-	2 Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-
Immunomicroscopy (IM)	-	1 Publication
Inhibition Assays (IA)	-	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 u but not H-2 d, H-2 u but not H-2 d, H-2 u but not H-2 h, H-2 h,

Applications Reported: M5/114.15.2 has been reported for use in flow cytometric analysis and in vitro blocking of T cell proliferative responses.

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 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

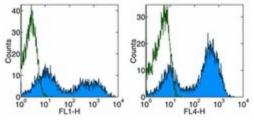
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/ $\mu$ g antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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



#### MHC Class II (I-A/I-E) Antibody (16-5321-81) in Flow

Staining of mouse splenocytes with Anti-Mouse MHC Class II (I-A/I-E) FITC (left) and APC (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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### **□** 92 References

#### Western Blot (2)

Frontiers in cellular and infection microbiology	Species	
RON Expression Mediates Lipopolysaccharide-Mediated Dendritic Cell	Not Applicab	
Maturation <i>via</i> March-I.	Dilution	
'Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 16-5321-81) in Immunoprecipitation"	Not Cited	
Authors: Huang L,Fang X,Zhang X,Wu W,Yao H,Fang Q	<b>Year</b> 2021	
The Journal of experimental medicine	Species	
The intramembrane protease SPPL2a promotes B cell development and	Mouse	
controls endosomal traffic by cleavage of the invariant chain.	Dilution	
'16-5321 was used in Immuno-electron microscopy to investigate the role of SPPL2a in the cleavage of type 2 rransmembrane proteins, showing that it promotes B cell development and controls endosomal traffic."	Not Cited	
Authors: Schneppenheim J,Dressel R,Hüttl S,Lüllmann-Rauch R,Engelke M,Dittmann K,Wienands J,Eskelinen EL, Hermans-Borgmeyer I,Fluhrer R,Saftig P,Schröder B	<b>Year</b> 2013	

Frontiers in aging neuroscience	Species
Age Influences Microglial Activation After Cuprizone-Induced	Not Applicable
Demyelination.	Dilution
"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 16-5321-81) in Immunofluorescence"	Not Cited
Authors: Klein B,Mrowetz H,Barker CM,Lange S,Rivera FJ,Aigner L	<b>Year</b> 2020
Scientific reports	Species
Intravitreal injection of adenosine A <sub>24</sub> receptor antagonist reduces	Not Applicable
neuroinflammation, vascular leakage and cell death in the retina of	Dilution
diabetic mice.	Not Cited
"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 16-5321-81) in Immunohistochemistry"	Year
Authors, Aires ID Medaire MH Dais D Dedrigues Neuros AC Martins, IM Ambrésis AE Sentiago AD	2019

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

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