

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	PE
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_465928

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.02 µg/test	135 Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication
Blocking Assay (BLOCK)	-	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: M5/114.15.2 has been reported for use in flow cytometric analysis.

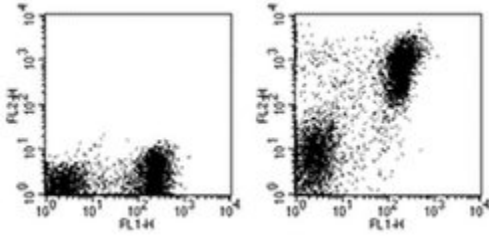
Applications Tested: The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be

used at less than or equal to 0.02 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



### MHC Class II (I-A/I-E) Antibody (12-5321-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and staining buffer (autofluorescence) (left) or 0.0075 µg of Anti-Mouse MHC Class II (I-A/I-E) PE (right). Total viable cells were used for analysis.

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## Immunohistochemistry (4)

### EBioMedicine

#### Evaluation of antiviral - passive - active immunization ("sandwich") therapeutic strategy for functional cure of chronic hepatitis B in mice.

"12-5321 was used in Immunohistochemistry-immunofluorescence to show "sandwich" combination therapy consisting of antiviral, passive and active immunization may be effective for chronic hepatitis B as it efficiently decreases HBsAg and HBV DNA levels and induces cellular and humoral immunity."

Authors: Shi B,Wu Y,Wang C,Li X,Yu F,Wang B,Yang Z,Li J,Liang M,Wen Y,Ying T,Yuan Z

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

### Scientific reports

#### IL-27R signaling controls myeloid cells accumulation and antigen-presentation in atherosclerosis.

"12-5321 was used in Flow cytometry/Cell sorting to study the role of IL-27R in controlling myeloid cell accumulation and activation in atherosclerosis."

Authors: Peshkova IO,Fatkhullina AR,Mikulski Z,Ley K,Koltsova EK

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

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

## Immunohistochemistry (Frozen) (1)

### Scientific reports

#### Heavy Chain-Hyaluronan/Pentraxin 3 from Amniotic Membrane Suppresses Inflammation and Scarring in Murine Lacrimal Gland and Conjunctiva of Chronic Graft-versus-Host Disease.

"12-5321 was used in Western Blotting to help prove the concept that subcutaneous and subconjunctival injection of HC-HA/PTX3 is a novel approach to prevent dry eye disease caused by cGVHD."

Authors: Ogawa Y,He H,Mukai S,Imada T,Nakamura S,Su CW,Mahabole M,Tseng SC,Tsubota K

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

## Flow Cytometry (135)

### 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 # 12-5321-82) 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**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2021

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

## More applications with references on thermofisher.com

**Neu (1)** **FN (1)** **BLOCK (1)**

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