

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
Excitation/Emission Max	565/576 nm
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_465928

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.02 µg/test	164 Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication
Blocking Assay (BLOCK)	-	1 Publication
In vitro Assay (IV)	-	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.

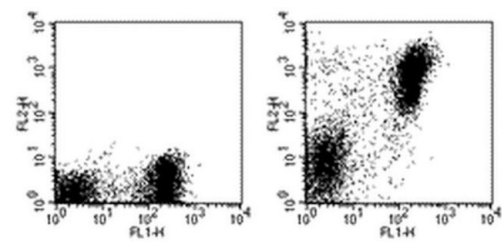
Applications Tested: The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be used at less than or equal to 0.02 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a

final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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.

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

Immunohistochemistry (5)

<p>FASEB journal : official publication of the Federation of American Societies for Experimental Biology</p> <p>Senescence-associated secretory phenotype promotes chronic ocular graft-vs-host disease in mice and humans.</p> <p>"12-5321-82 was used in Immunohistochemistry to elucidate an additional pathway of chronic ocular chronic graft-vs-host disease."</p> <p>Authors: Yamane M,Sato S,Shimizu E,Shibata S,Hayano M,Yaguchi T,Kamijuku H,Ogawa M,Suzuki T,Mukai S,Shimmura S,Okano H,Takeuchi T,Kawakami Y,Ogawa Y,Tsubota K</p>	<p>Year 2020</p> <p>Species Mouse</p>
<p>EBioMedicine</p> <p>Evaluation of antiviral - passive - active immunization ("sandwich") therapeutic strategy for functional cure of chronic hepatitis B in mice.</p> <p>"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."</p> <p>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</p>	<p>Year 2019</p> <p>Species Mouse</p>

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

Immunohistochemistry (Frozen) (1)

<p>Scientific reports</p> <p>Heavy Chain-Hyaluronan/Pentraxin 3 from Amniotic Membrane Suppresses Inflammation and Scarring in Murine Lacrimal Gland and Conjunctiva of Chronic Graft-versus-Host Disease.</p> <p>"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."</p> <p>Authors: Ogawa Y,He H,Mukai S,Imada T,Nakamura S,Su CW,Mahabole M,Tseng SC,Tsubota K</p>	<p>Year 2017</p> <p>Species Mouse</p>
--	---

Flow Cytometry (164)

<p>Cell & bioscience</p> <p>Identification of atypical mitogen-activated protein kinase MAPK4 as a novel regulator in acute lung injury.</p> <p>"12-5321-82 was used in Flow Cytometry to reveal an unknown role of atypical MAPKs member MAPK4 in the pathology of acute lung injury."</p> <p>Authors: Mao L,Zhou Y,Chen L,Hu L,Liu S,Zheng W,Zhao J,Guo M,Chen C,He Z,Xu L</p>	<p>Year 2022</p> <p>Species Mouse</p>
--	---

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

More applications with references on thermofisher.com

- Neu (1)
- FN (1)
- BLOCK (1)
- IV (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.