

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	FITC
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_465232

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	18 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.125 µg/test	160 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	2 Publications
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	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.

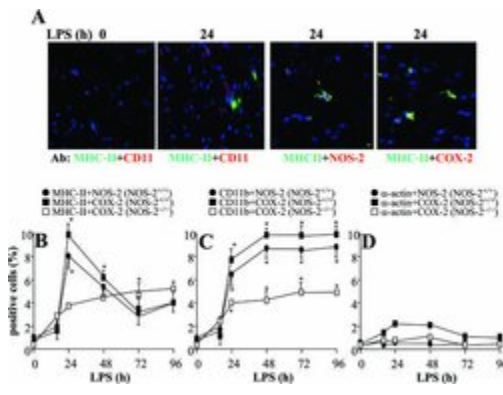
Applications Reported: M5/114.15.2 has been reported for use in flow cytometric analysis.

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 0.125 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 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

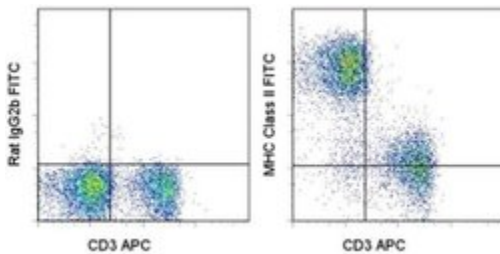
Advanced Verification Data



MHC Class II (I-A/I-E) Antibody (11-5321-82)

Figure 3-7047 Characterization of cells expressing NOS-2 and COX-2 in heart sections from wild-type and NOS-2 KO mice treated with LPS. Tissue sections from the hearts of animals treated for 24 hours with LPS were fixed and immunostained with antibodies for NOS-2 and COX-2 and for specific cell-type markers. A: Representative sections of co-localization of MHC class II and CD11b with NOS-2 and COX-2. B: Time-dependent distribution of MHC class II-positive cells also expressing NOS-2 and COX-2 in wild-type or NOS-2 KO mice, respectively. C: Time-dependent distribution of CD11b-positive cells also expressing NOS-2 and COX-2 in wild-type or NOS-2 KO mice, respectively. D: Time-dependent distribution of alpha-actin, NOS-2, and COX-2 in heart sections. Data show the means \pm SD (n > 15); * P < 0.01 versus time 0 hours. Immunohistograms are representative of at least 20 examined. Cell treatment validation info.

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



MHC Class II (I-A/I-E) Antibody (11-5321-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) and 0.06 µg of Rat IgG2b K Isotype Control FITC (Product # 11-4031-82) (left) or 0.06 µg of Anti-Mouse MHC Class II (I-A/I-E) FITC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

Western Blot (1)

Proceedings of the National Academy of Sciences of the United States of America

The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 11-5321-82) in Western Blot"

Authors: Unternaehrer JJ,Chow A,Pypaert M,Inaba K,Mellman I

Species
Not Applicable

Dilution
Not Cited

Year
2007

Immunohistochemistry (18)

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 # 11-5321-82) 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_{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 # 11-5321-82) 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 (Paraffin) (1)

The Journal of experimental medicine

Paneth cell extrusion and release of antimicrobial products is directly controlled by immune cell-derived IFN-.

"11-5321 was used in Immunofluorescence to study the control of paneth cell degranulation in primary epithelial organoids in culture, showing that it is directly controlled by immune cell-derived IFN-."

Authors: Farin HF,Karthaus WR,Kujala P,Rakhshandehroo M,Schwank G,Vries RG,Kalkhoven E,Nieuwenhuis EE,Clevers H

Species
Mouse

Dilution
Not Cited

Year
2014

More applications with references on thermofisher.com

ICC/IF (6)

Flow (160)

ELISA (1)

IP (2)

IV (1)

Misc (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.