

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
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_465232

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	21 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.125 µg/test	197 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.

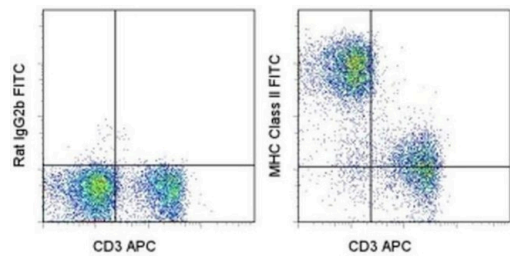
Applications Reported: M5/114.15.2 has been reported for use in flow cytometric analysis.

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.

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.

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Western Blot (1)

<p>Proceedings of the National Academy of Sciences of the United States of America</p> <p>The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface.</p> <p>"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 11-5321-82) in Western Blot"</p> <p>Authors: Unternaehrer JJ,Chow A,Pypaert M,Inaba K,Mellman I</p>	<p>Year 2007</p>
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Immunohistochemistry (21)

<p>Frontiers in neuroscience</p> <p>Systemic Inflammation Accelerates Changes in Microglial and Synaptic Markers in an Experimental Model of Chronic Neurodegeneration.</p> <p>"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 11-5321-82) in Immunohistochemistry"</p> <p>Authors: Chouhan JK,Püntener U,Booth SG,Teeling JL</p>	<p>Year 2022</p>
<p>Molecular therapy. Methods & clinical development</p> <p>Transgene distribution and immune response after ultrasound delivery of rAAV9 and PHP.B to the brain in a mouse model of amyloidosis.</p> <p>"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 11-5321-82) in Immunocytochemistry"</p> <p>Authors: Kofoed RH,Heinen S,Silburt J,Dubey S,Dibia CL,Maes M,Simpson EM,Hynynen K,Aubert I</p>	<p>Year 2021</p>

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Immunohistochemistry (Paraffin) (1)

<p>The Journal of experimental medicine</p> <p>Paneth cell extrusion and release of antimicrobial products is directly controlled by immune cell-derived IFN-.</p> <p>"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-."</p> <p>Authors: Farin HF,Karthus WR,Kujala P,Rakhshandehroo M,Schwank G,Vries RG,Kalkhoven E,Nieuwenhuis EE,Clevers H</p>	<p>Year 2014</p> <p>Species Mouse</p>
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- ICC/IF (6)
- Flow (197)
- ELISA (1)
- IP (2)
- IV (1)
- Misc (1)

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