

MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_494009

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	19 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.06 µg/test	162 Publications
Immunoprecipitation (IP)	-	2 Publications

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: This M5/114.15.2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 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.

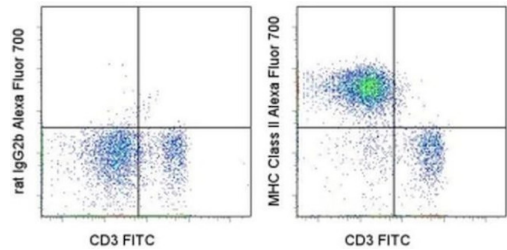
Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP

mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor™ 700, eBioscience™



MHC Class II (I-A/I-E) Antibody (56-5321-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and staining buffer (autofluorescence) (left) or 0.03 µg of Anti-Mouse MHC Class II (I-A/I-E) Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (19)

<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 # 56-5321-82) in Immunohistochemistry"</p> <p>Authors: Chouhan JK,Püntener U,Booth SG,Teeling JL</p>	<p>Year</p> <p>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 # 56-5321-82) 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</p> <p>2021</p>

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Immunocytochemistry (5)

<p>Cell</p> <p>Secreted gelsolin inhibits DNGR-1-dependent cross-presentation and cancer immunity.</p> <p>"56-5321-82 was used in Immunocytochemistry to reveal a natural barrier to cross-presentation of cancer antigens that dampens anti-tumor CD8+ T cell responses."</p> <p>Authors: Giampazolias E,Schulz O,Lim KHJ,Rogers NC,Chakravarty P,Srinivasan N,Gordon O,Cardoso A,Buck MD,Poirier EZ,Canton J,Zelenay S,Sammicheli S,Moncaut N,Varsani-Brown S,Rosewell I,Reis e Sousa C</p>	<p>Year</p> <p>2021</p> <p>Species</p> <p>Mouse</p>
<p>Glia</p> <p>Exosomes derived from microglia exposed to elevated pressure amplify the neuroinflammatory response in retinal cells.</p> <p>"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 56-5321-82) in Immunocytochemistry"</p> <p>Authors: Aires ID,Ribeiro-Rodrigues T,Boia R,Catarino S,Girão H,Ambrósio AF,Santiago AR</p>	<p>Year</p> <p>2020</p>

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More applications with references on thermofisher.com

- Flow (162)
- IP (2)

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