

# MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_1834439

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	84 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 spleen cells. 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 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.

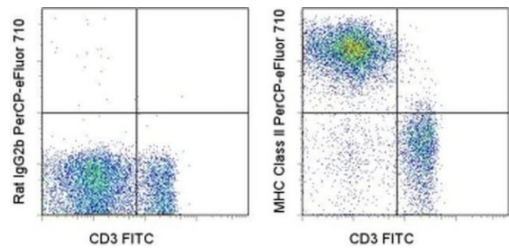
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 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), PerCP-eFluor™ 710, eBioscience™**



**MHC Class II (I-A/I-E) Antibody (46-5321-82) in Flow**  
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.03 µg of Rat IgG2b kappa Isotype Control PerCP-eFluor® 710 (Product # 46-4031-82) (left) or 0.03 µg of Anti-Mouse MHC Class II (I-A/I-E) PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (Paraffin) (1)

<p>Translational oncology</p> <p><b>Gemcitabine Recruits M2-Type Tumor-Associated Macrophages into the Stroma of Pancreatic Cancer.</b></p> <p>"46-5321-82 was used in Immunohistochemistry (Paraffin) to investigate the interaction between the dense stroma and tumor cells in pancreatic ductal adenocarcinoma (PDAC) using patient-derived tumor xenograft models."</p> <p>Authors: Bulle A,Dekervel J,Deschuttere L,Nittner D,Libbrecht L,Janky R,Plaisance S,Topal B,Coosemans A,Lambrechts D,Van Cutsem E,Verslype C,van Pelt J</p>	<p>Year 2020</p> <p>Species Mouse</p>
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Flow Cytometry (84)

<p>The Journal of experimental medicine</p> <p><b>IFN- signature enables selection of neoadjuvant treatment in patients with stage III melanoma.</b></p> <p>"46-5321-82 was used in Flow cytometry/Cell sorting to investigate whether adding domatinostat to neoadjuvant therapy in stage III melanoma patients, based on their baseline IFN- scores, could enhance the IFN- response and improve treatment efficacy."</p> <p>Authors: Reijers ILM,Rao D,Versluis JM,Menzies AM,Dimitriadis P,Wouters MW,Spillane AJ,Klop WMC,Broeke A,Bosch LJW,Lopez-Yurda M,van Houdt WJ,Rawson RV,Grijpink-Ongering LG,Gonzalez M,Cornelissen S,Bouwman J,Sanders J,Plasmeijer E,Elshot YS,Scolyer RA,van de Wiel BA,Peeper DS,van Akkooi ACJ,Long GV,Blank CU</p>	<p>Year 2023</p> <p>Species Mouse</p>
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<p>Frontiers in cellular neuroscience</p> <p><b>Loss of IRF2BP2 in Microglia Increases Inflammation and Functional Deficits after Focal Ischemic Brain Injury.</b></p> <p>"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 46-5321-82) in Flow Cytometry"</p> <p>Authors: Cruz SA,Hari A,Qin Z,Couture P,Huang H,Lagace DC,Stewart AFR,Chen HH</p>	<p>Year 2022</p>
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