MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), APC, 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), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M5/114.15.2
Conjugate	APC
Form	Liquid
Concentration	0.2 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_469455

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.03 µg/test	109 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.

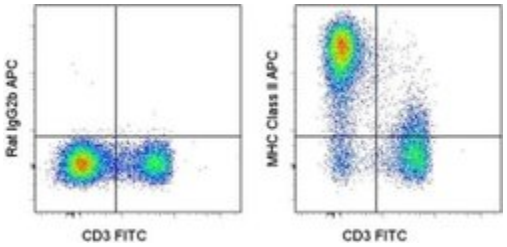
Applications Reported: M5/114.15.2 has been reported for use in flow cytometric analysis.

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 0.03 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 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), APC, eBioscience™



MHC Class II (I-A/I-E) Antibody (17-5321-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.015 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.015 µg of Anti-Mouse MHC Class II (I-A/I-E) APC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

111 References

Immunohistochemistry (1)

Ophthalmology and eye diseases

Stratification of Antigen-presenting Cells within the Normal Cornea.

"17-5321 was used in Immunofluorescence on wholemounted tissues to investigate the presence of antigen-presenting cells within the non-inflamed cornea."

Authors: Knickelbein JE,Watkins SC,McMenamin PG,Hendricks RL

Species
Mouse

Dilution
Not Cited

Year
2009

Immunocytochemistry (1)

Nature

Sessile alveolar macrophages communicate with alveolar epithelium to modulate immunity.

"17-5321 was used in Immunofluorescence to show that a subset of alveolar macrophages (AMs) attached to the alveolar wall form connexin 43 (Cx43)-containing gap junction channels with the epithelium."

Authors: Westphalen K,Gusarova GA,Islam MN,Subramanian M,Cohen TS,Prince AS,Bhattacharya J

Species
Mouse

Dilution
Not Cited

Year
2014

Flow Cytometry (109)

International journal of biological sciences

MiR-103 protects from recurrent spontaneous abortion via inhibiting STAT1 mediated M1 macrophage polarization.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 17-5321-82) in Flow Cytometry"

Authors: Zhu X,Liu H,Zhang Z,Wei R,Zhou X,Wang Z,Zhao L,Guo Q,Zhang Y,Chu C,Wang L,Li X

Species
Not Applicable

Dilution
Not Cited

Year
2021

Frontiers in immunology

Dietary Glucose Consumption Promotes RALDH Activity in Small Intestinal $CD103^{+}CD11b^{+}$ Dendritic Cells.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 17-5321-82) in Flow Cytometry"

Authors: Ko HJ,Hong SW,Verma R,Jung J,Lee M,Kim N,Kim D,Surh CD,Kim KS,Rudra D,Im SH

Species
Not Applicable

Dilution
Not Cited

Year
2021

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More applications with references on thermofisher.com