

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

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Туре	Antibody
Clone	M5/114.15.2
Conjugate	Unconjugated
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
RRID	AB_467561

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	1 Publication
Immunohistochemistry (IHC)	-	42 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	6 Publications
Immunocytochemistry (ICC/IF)	-	9 Publications
Flow Cytometry (Flow)	0.125 μg/test	168 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	2 Publications
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
Inhibition Assays (IA)	-	3 Publications
Blocking Assay (BLOCK)	-	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-E d, 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 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 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, immunoprecipitation, immunoblotting (WB), immunohistology staining of frozen tissue sections, immunohistology staining of paraffin embedded tissue sections and in vitro blocking of T cell proliferative responses. (Please use Functional Grade purified M5/114.15.2, cat.16-4321, in functional assays.).

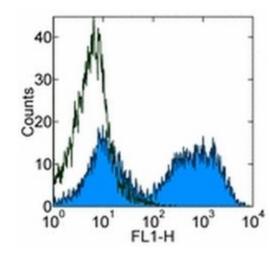
Applications Tested: The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



MHC Class II (I-A/I-E) Antibody (14-5321-82) in Flow

Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG2b K Isotype Control Purified (Product # 14-4031-82) (open histogram) or 0.06 µg of Anti-Mouse MHC Class II (I-A/I-E) Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 239 References

Western Blot (1)

Cellular immunology

BCG vaccine mediated reduction in the MHC-II expression of macrophages and dendritic cells is reversed by activation of Toll-like receptors 7 and 9.

"Published figure using MHC Class II (I-A/I-E) monoclonal antibody (Product # 14-5321-82) in Flow Cytometry" Authors: Bakhru P,Sirisaengtaksin N,Soudani E,Mukherjee S,Khan A,Jagannath C

Species Mouse

Dilution Not Cited

Year 2014

Immunohistochemistry (42)

Frontiers in neuroscience

Reduction of the RNA Binding Protein TIA1 Exacerbates Neuroinflammation in Tauopathy.

"14-5321 was used in Immunohistochemistry to demonstrate that TIA1 plays an important role in the neuroimmune response to chronic stress in the form of tauopathy."

Authors: LeBlang CJ, Medalla M, Nicoletti NW, Hays EC, Zhao J, Shattuck J, Cruz AL, Wolozin B, Luebke JI

Species Mouse

Dilution 1:250

Year 2021

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 # 14-5321-82) in Immunofluorescence"
Authors: Klein B,Mrowetz H,Barker CM,Lange S,Rivera FJ,Aigner L

SpeciesNot Applicable

Dilution Not Cited

Year 2020

View more IHC references on thermofisher.com

Immunohistochemistry (Frozen) (6)

PLoS pathogens

Astrocytes promote a protective immune response to brain Toxoplasma gondii infection via IL-33-ST2 signaling.

"14-5321-81 was used in Immunohistochemistry (Frozen) to show that IL-33 is expressed by oligodendrocytes and astrocytes during T. gondii infection, is released locally into the cerebrospinal fluid of T. gondii-infected animals, and is required for control of infection."

Authors: Still KM,Batista SJ,O'Brien CA,Oyesola OO,Früh SP,Webb LM,Smirnov I,Kovacs MA,Cowan MN,Hayes NW, Thompson JA,Tait Wojno ED,Harris TH

Species Mouse

Dilution 1:500

Year 2020

View more IHC (F) references on thermofisher.com

More applications with references on thermofisher.com

ICC/IF (9) Flow (168) ELISA (1) IP (2) Neu (2) FN (3) IA (3) BLOCK (1) Misc (1)

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