

## Product Information

Contents: Phycoerythrin (PE) anti-mouse MHC class II (I-A/I-E)

Catalog Number: 12-5321

Sizes: 50 ug, 100 ug, 200 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

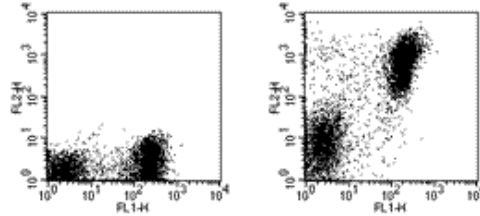
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT SENSITIVE MATERIAL.

Clone: M5/114.15.2

Isotype: Rat IgG2b, κ



Staining of C57Bl/6 splenocytes with FITC anti-CD45R/B220 (cat. 11-0452) and staining buffer (autofluorescence) (left) or 0.0075 µg of PE M5/114.15.2 (right). Total viable cells were used for analysis.

## Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-5321	FITC anti-mouse MHC Class II (I-A/I-E)	488	518	FC
12-5321	PE anti-mouse MHC Class II (I-A/I-E)	488	575	FC
13-5321	Biotin anti-mouse MHC Class II (I-A/I-E)	N/A	N/A	FC
14-5321	Affinity Purified anti-mouse MHC Class II (I-A/I-E)	N/A	N/A	FC IP
15-5321	PE-Cy5 anti-mouse MHC Class II (I-A/I-E)	488	670	FC
16-5321	Functional Grade* Purified anti-mouse MHC Class II (I-A/I-E)	N/A	N/A	FC
17-5321	APC anti-mouse MHC Class II (I-A/I-E)	633	660	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

## 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<sup>b</sup>, I-A<sup>d</sup>, I-A<sup>q</sup>, I-E<sup>d</sup>, I-E<sup>k</sup>, not I-A<sup>f</sup>, I-A<sup>k</sup>, or I-A<sup>s</sup>). It detects a polymorphic determinant present on B cells, monocytes, macrophages, dendritic cells, and activated T lymphocytes from mice carrying the H-2<sup>b</sup>, H-2<sup>d</sup>, H-2<sup>q</sup>, H-2<sup>p</sup>, H-2<sup>r</sup> and H-2<sup>u</sup> but not from mice carrying the H-2<sup>s</sup> or H-2<sup>f</sup> haplotypes. The M5/114 mAb is reported to inhibit I-A-restricted T cell responses of the H-2<sup>b</sup>, H-2<sup>d</sup>, H-2<sup>q</sup>, H-2<sup>u</sup> but not H-2<sup>f</sup>, H-2<sup>k</sup>, or H-2<sup>s</sup> haplotypes.

## Usage

For research use only, not for diagnostic or therapeutic use. 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 splenocyte suspension and can be used at less than or equal to 0.06 µg/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

Cat. 12-4031 Phycoerythrin (PE) Rat IgG2b Isotype Control (clone eB149/10H5)

## References

Bhattacharya, A., M. E. Dorf, et al. 1981. A shared alloantigenic determinant on Ia antigens encoded by the I-A and I-E subregions: evidence for I region gene duplication. *J Immunol* 127(6): 2488-95.

Germain, R. N., A. Bhattacharya, et al. 1982. A single monoclonal anti-Ia antibody inhibits antigen-specific T cell proliferation controlled by distinct Ir genes mapping in different H-2 I subregions. *J Immunol* 128(3): 1409-13.

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