

Product Information

Contents: Affinity Purified anti-mouse MHC class II (I-A/I-E)

Catalog Number: 14-5321

Sizes: 50 ug, 100 ug, 500 ug

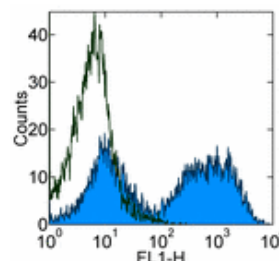
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: M5/114.15.2

Isotype: Rat IgG2b, κ



Staining of C57Bl/6 splenocytes with 0.06 µg of Purified Rat IgG2b Iso Cntrl (cat. 14-4331) (open histogram) or 0.06 µg of Purified M5/114.15.2 (colored histogram) followed by FITC Anti-Rat IgG (cat. 11-4811). 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^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.

Usage

For research use only, not for diagnostic or therapeutic use. M5/114.15.2 has been reported for use in flow cytometric analysis, immunohistochemical staining, immunoprecipitation, and *in vitro* blocking of T cell proliferative responses (use Functional Grade purified, cat.16-4321).

Applications Tested

The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and can be used at less than or equal to 0.5 µg/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 14-4031 Purified Rat IgG2b Isotype Control (clone eB149/10H5)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)

Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)
Cat. 11-5321 FITC anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)
Cat. 12-5321 PE anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)
Cat. 13-5321 Biotin anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)
Cat. 15-5321 PE-Cy5 anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)
Cat. 16-5321 Functional Grade Purified anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)
Cat. 17-5321 APC anti-mouse MHC Class II (I-A/I-E) (clone M5/114.15.2)

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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