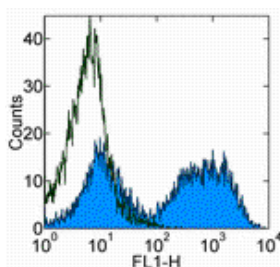


## Anti-Mouse MHC Class II (I-A/I-E) Purified

**Catalog Number:** 14-5321

**Also Known As:** MHC II, IA, IE, I-A/E, IA/IE

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



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

### Product Information

**Contents:** Anti-Mouse MHC Class II (I-A/I-E) Purified

**REF** **Catalog Number:** 14-5321

**Clone:** M5/114.15.2

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rat IgG2b, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### 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, 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 (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 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ 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.

### References

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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.

**Related Products**

11-4811 Anti-Rat IgG FITC

14-4031 Rat IgG2b K Isotype Control Purified

48-0031 Anti-Mouse CD3e eFluor® 450 (145-2C11)

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