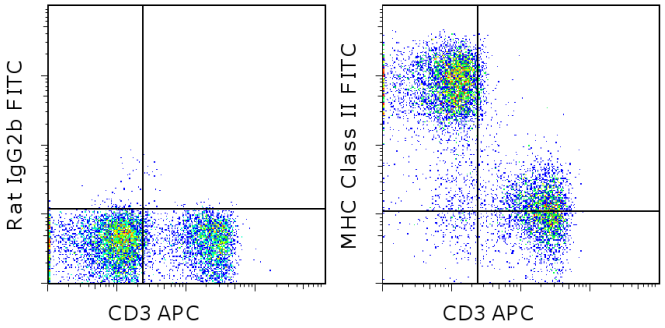
Anti-Mouse MHC Class II (I-A/I-E) FITC

Catalog Number: 11-5321
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 Anti-Mouse CD3e APC (cat. 17-0031) and 0.06 ug of Rat IgG2b K Isotype Control FITC (cat. 11-4031) (left) or 0.06 ug of Anti-Mouse MHC Class II (I-A/I-E) FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class II (I-A/I-E) FITC
REF **Catalog Number:** 11-5321
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. Do not freeze. Light sensitive material.
LOT **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

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 0.125 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.

References

Unternaehrer JJ, Chow A, et al. 2007. The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface. Proc Natl Acad Sci U S A. 104(1):234-9. (**M5/114.15.2**, IP, PubMed)

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Bagavant, Sharp et al. 2002. "Induction and Immunohistology of Autoimmune Ovarian Disease in Cynomolgus Macaques (Macaca fascicularis)". Am J Pathol 160:141-149. (**M5/114.15.2**, IHC, PubMed)

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Li C, Siemasko K, et al. 2002. Cooperative interaction of Ig(alpha) and Ig(beta) of the BCR regulates the kinetics and specificity of antigen targeting. Int Immunol. 14(10):1179-91. (**M5/114.15.2**, IHC frozen and WB, PubMed)

Mediratta SK, Singh N, et al. 1996. Analysis of T-cell hybridomas with an unusual MHC class II-dependent ligand specificity. Immunology. 89(2):238-44. (**M5/114.15.2**, FA, PubMed)

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.

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
11-4031 Rat IgG2b K Isotype Control FITC
17-0031 Anti-Mouse CD3e APC (145-2C11)

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