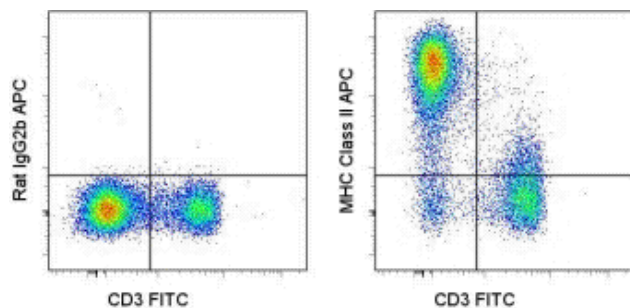


Anti-Mouse MHC Class II (I-A/I-E) APC

Catalog Number: 17-5321

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 FITC (cat. 11-0031) and 0.015 ug of Rat IgG2b K Isotype Control APC (cat. 17-4031) (left) or 0.015 ug of Anti-Mouse MHC Class II (I-A/I-E) APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

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

REF **Catalog Number:** 17-5321

Clone: M5/114.15.2

Concentration: 0.2 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 0.03 µg per test. A test is defined as the amount (µg)/test 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 10⁵ to 10⁸ 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)

Gueirard, Pascale et al. 2003. "Bordetella bronchiseptica Persists in the Nasal Cavities of Mice and Triggers Early Delivery of Dendritic Cells in the Lymph Nodes Draining the Lower and Upper Respiratory Tract". *Infection and Immunity* 71(7):4137-4143. (M5/114.15.2, IHC paraffin, PubMed)

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)

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

11-0031 Anti-Mouse CD3e FITC (145-2C11)

17-4031 Rat IgG2b K Isotype Control APC

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