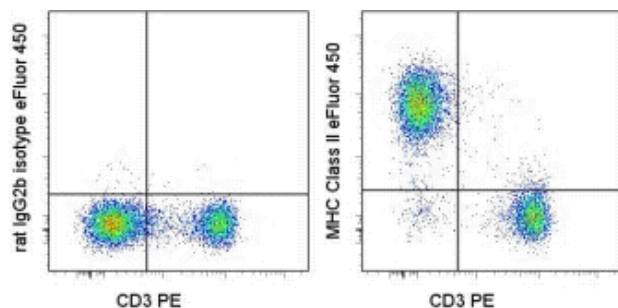


Anti-Mouse MHC Class II (I-A/I-E) eFluor® 450

Catalog Number: 48-5321

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 PE (cat. 12-0031) and 0.06 ug of Rat IgG2b K Isotype Control eFluor® 450 (cat. 48-4031) (left) or 0.06 ug of Anti-Mouse MHC Class II (I-A/I-E) eFluor® 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class II (I-A/I-E) eFluor® 450

REF **Catalog Number:** 48-5321

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

This M5/114.15.2 antibody has been reported for use in flow cytometric analysis.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Applications Tested

This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor™ 450 is a replacement for Pacific Blue®. eFluor™ 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

12-0031 Anti-Mouse CD3e PE (145-2C11)

48-4031 Rat IgG2b K Isotype Control eFluor® 450

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