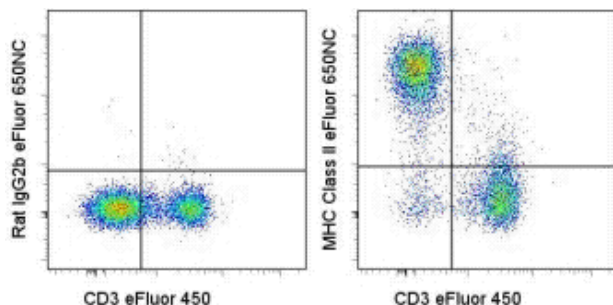


Anti-Mouse MHC Class II (I-A/I-E) eFluor® 650NC

Catalog Number: 95-5321

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 eFluor® 450 (cat. 48-0032) and Rat IgG2b K Isotype Control eFluor® 650NC (cat. 95-4031) (left) or Anti-Mouse MHC Class II (I-A/I-E) eFluor® 650NC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class II (I-A/I-E) eFluor® 650NC

REF **Catalog Number:** 95-5321

Clone: M5/114.15.2

Concentration: 5 uL

Host/Isotype: Rat IgG2b, kappa

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

Temperature Limitation: Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.



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.

Applications Tested

This M5/114.15.2 antibody has been pre-titrated and tested by flow cytometric analysis of mouse splenocytes. This can be used at 5 µL per test. A test is defined as the amount 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.

The isotype control eFluor® 650NC rat IgG2b (cat. 95-4031) should be used at 5 uL/test.

Laser/Filter Recommendation: When using eFluor 650NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 630 LP dichroic mirror with the 660/40 bandpass filter. The eFluor 650NC can be minimally excited off of the 633 nm laser, and because its peak emission is 650nm, it will require some compensation out of the APC detector. Please contact eBioscience Technical Support for more information.

Buffer Recommendation: Comparison of eFluor® NC conjugated antibody staining in different buffers has demonstrated that optimal performance is seen with the eFluor® NC Flow Cytometry Staining Buffer (cat. 00-3222). For a comparison of staining with different buffers, refer to eFluor® Nanocrystals page.

Fixation Recommendation: When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µl for fixation and the exposure time 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers to additional questions about fixation and other FAQs refer to eFluor® Nanocrystal Frequently Asked Questions.

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

00-4222 Flow Cytometry Staining Buffer

48-0032 Anti-Mouse CD3 eFluor® 450 (17A2)

93-0452 Anti-Human/Mouse CD45R (B220) eFluor® 605NC (RA3-6B2)

95-4031 Rat IgG2b K Isotype Control eFluor® 650NC

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com