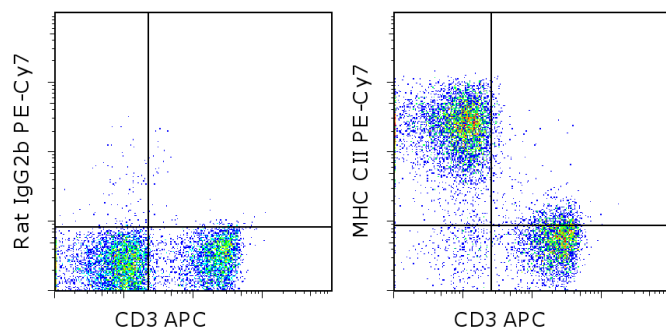


Anti-Mouse MHC Class II (I-A/I-E) PE-Cyanine7

Catalog Number: 25-5321

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 PE-Cyanine7 (cat. 25-4031) (left) or 0.06 ug of Anti-Mouse MHC Class II (I-A/I-E) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class II (I-A/I-E) PE-Cyanine7



Catalog Number: 25-5321

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium 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 tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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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

17-0031 Anti-Mouse CD3e APC (145-2C11)

25-4031 Rat IgG2b K Isotype Control PE-Cyanine7

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