SONY

Product Data Sheet

PerCP/Cy5.5 anti-mouse I-A/I-E

Catalog # / Size: 1138125 / 25 µg
1138130 / 100 µg

Clone: M5/114.15.2

Isotype: Rat IgG2b, κ

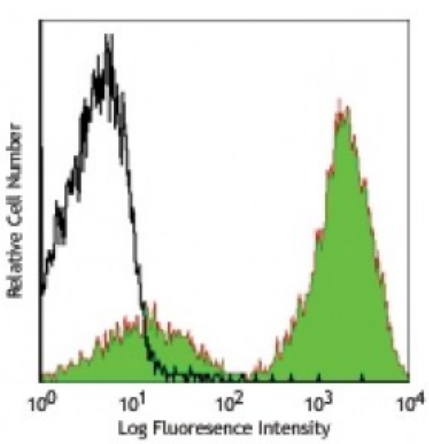
Immunogen: Activated C57BL/6 mouse spleen cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with anti-mouse I-A/I-E (clone M5/114.15.2) PerCP/Cy5.5 (filled histogram) or rat IgG2b, κ PerCP/Cy5.5 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: The M5/114.15.2 antibody reacts with a polymorphic determinant shared by the I-Ab, I-Ad, I-A^q, I-Ed, and I-Eκ MHC class II alloantigens from mice carrying H-$2^{p,r,q,b,d,u}$ haplotypes. Clone M5/114.15.2 however does not react wtih I-A^f, I-Aκ, or I-A^s MHC class II alloantigens.1

Additional reported applications (for the relevant formats) include: immunoprecipitation1, immunohistochemistry of frozen sections[2,3,6], and *in vitro* and *in vivo* blocking of antigen presentation or ligand binding[4-7]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 107610).

Application References:

1. Bhattacharya A, *et al.* 1981. *J. Immunol.* 127:2488. (IP)
2. Viville S, *et al.* 1993. *Cell* 72:635. (IHC)
3. Nelson AJ, *et al.* 1993. *J. Immunol.* 151:2453. (IHC)
4. Shi Y, *et al.* 1998. *J. Exp. Med.* 187:367. (Block)
5. Yamashita I, *et al.* 1993. *Int. Immunol.* 5:1139.
6. Guo M, *et al.* 1995. *Zygote* 3:65. (IHC)
7. Kim A, *et al.* 2004. *Exp. Mol. Med.* 36:428. (Block)
8. Luckashenak NA, *et al.* 2006. *J. Immunol.* 177:5177.
9. Venanzi ES, *et al.* 2007. *J. Immunol.* 179:5693.
10. Christensen SR, *et al.* 2006. *Immunity* 25:417. PubMed
11. Matte-Martone C, *et al.* 2008. *Blood* 111:3884. PubMed

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

12. De Pascalis R, *et al.* 2008. *Infect. Immun.* 76:4311. PubMed
13. Kuns RD, *et al.* 2009. *Blood* 113:5999. PubMed
14. Sabatino JJ, *et al.* 2011. *J. Exp. Med.* 208:81. PubMed
15. Draber P, *et al.* 2011. *Mol Cell Biol.* 22:4550. PubMed
16. Fu H, *et al.* 2014. *Nat Commun.* 5:3436. PubMed

Description: These class II molecules are expressed on antigen presenting cells (including B cells) and a subset of T cells from H-$2^{b,d,q,r}$ bearing mice and are involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins.

Antigen References:

1. Watts C. 1997. *Ann. Rev. Immunol.* 15:821.
2. Pamer E, *et al.* 1998. *Ann. Rev. Immunol.* 16:323.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.