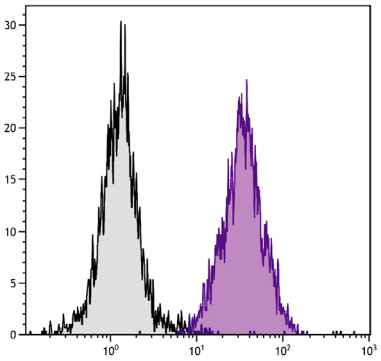
SouthernBiotech

Mouse Anti-Mouse H-2D^k

Cat. No.	Format	Size
1914-01	Purified (UNLB)	0.5 mg
1914-02	Fluorescein (FITC)	0.5 mg
1914-08	Biotin (BIOT)	0.5 mg
1914-09	R-phycoerythrin (PE)	0.1 mg



C3H/He mouse splenocytes were stained with Mouse Anti-Mouse H-2D^k-PE (SB Cat. No. 1914-09).

Overview

Clone	15-5-5 (15-5-5S)
Isotype	Mouse (C3H.SW) IgG$_{2a}\kappa$
Immunogen	C3H mouse splenocytes
Specificity	Mouse H-2D^k
Alternate Name(s)	MHC Class I

Description

The monoclonal antibody 15-5-5 reacts with the H-2D^k class I alloantigen. It cross-reacts with H-2K^d and with cells from mice with the H-2^f haplotype. The antibody does not react with other (e.g., *a, b, p, q, r, s*) haplotypes.

Applications

FC – Quality tested [6]
IP – Reported in literature [3]
CMCD – Reported in literature [1,2]
ELISA – Reported in literature [4]
Block – Reported in literature [5]

Working Dilutions

Flow Cytometry	FITC, BIOT, and PE conjugates	$\leq$ 1 μg/10^6 cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

1. Ozato K, Mayer N, Sachs DH. Hybridoma cell lines secreting monoclonal antibodies to mouse H-2 and Ia antigens. J Immunol. 1980;124:533-40. (Immunogen, CMCD)
2. Rogers MJ, Gooding LR, Margulies DH, Evans GA. Analysis of a defect in the H-2 genes of SV40 transformed C3H fibroblasts that do not express H-$2K^k$. J Immunol. 1983;130:2418-22. (CMCD)
3. Houlden BA, Widacki SM, Bluestone JA. Signal transduction through class I MHC by a monoclonal antibody that detects multiple murine and human class I molecules. J Immunol. 1991;146:425-30. (IP)
4. Bedford P, Garner K, Knight SC. MHC class II molecules transferred between allogeneic dendritic cells stimulate primary mixed leukocyte reactions. Int Immunol. 1999;11:1739-44. (ELISA)
5. Desrosiers M, Kielczewska A, Loredo-Osti J, Adam SG, Makrigiannis AP, Lemieux S, et al. Epistasis between mouse Klra and major histocompatibility complex class I loci is associated with a new mechanism of natural killer cell-mediated innate resistance to cytomegalovirus infection. Nat Genet. 2005;37:593-9. (Block)
6. Matsuoka S, Asano Y, Sano K, Kishimoto H, Yamashita I, Yorifuji H, et al. A novel type of cell death of lymphocytes induced by a monoclonal antibody without participation of complement. J Exp Med. 1995;181:2007-15. (FC)

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