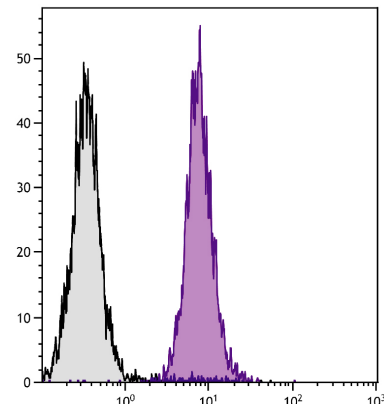


Mouse Anti-Mouse H-2D^b

Cat. No.	Format	Size
1913-01	Purified (UNLB)	0.5 mg
1913-02	Fluorescein (FITC)	0.5 mg
1913-08	Biotin (BIOT)	0.5 mg
1913-09	R-phycoerythrin (PE)	0.1 mg
1913-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1913-30	Alexa Fluor® 488 (AF488)	0.1 mg



BALB/c mouse splenocytes were stained with Mouse Anti-Mouse H-2D^b-BIOT (SB Cat. No. 1913-08) followed by Streptavidin-FITC (SB Cat No. 7100-02).

Overview

Clone	27-11-13S
Isotype	Mouse (C3H) IgG _{2a} K
Immunogen	BDF ₁ mouse splenocytes
Specificity	Mouse H-2D ^b
Alternate Name(s)	MHC Class I

Description

The monoclonal antibody 27-11-13S recognizes with the $\alpha 3$ domain of H-2D^b class I MHC antigen. The antibody cross-reacts with the $\alpha 3$ domain of H-2D^d, H-2D^q, H-2L^d and H-2L^q but not H-2K^b. Reactivity with haplotypes *k*, *f*, *p*, *r*, and *s* has not been observed.

Applications

FC – Quality tested ²
 ICC – Reported in literature ³
 IP – Reported in literature ⁴
 CMCD – Reported in literature ¹

Working Dilutions

Flow Cytometry	FITC, BIOT, and AF488 conjugates	$\leq 1 \mu\text{g}/10^6 \text{ cells}$
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6 \text{ cells}$
	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.

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/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Alexa Fluor® 488 (AF488) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- 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 SDS.

References

1. Ozato K, Sachs DH. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2^b haplotype reveal genetic control of isotype expression. J Immunol. 1981;126:317-21. (Immunogen, CMCD)
2. Palmowski MJ, Parker M, Choudhuri K, Chiu C, Callan MF, van der Merwe PA. A single-chain H-2D^b molecule presenting an influenza virus nucleoprotein epitope shows enhanced ability at stimulating CD8⁺ T cell responses in vivo. J Immuno. 2009;182:4565-71. (FC)
3. Choudhuri K, Parker M, Millicic A, Cole DK, Shaw MK, Sewell AK, et al. Peptide-major histocompatibility complex dimensions control proximal kinase-phosphatase balance during T cell activation. J Biol Chem. 2009;284:26096-105. (ICC)
4. Shemesh J, Ehrlich R. Aberrant biosynthesis and transport of class I major histocompatibility complex molecules in cells transformed with highly oncogenic human adenoviruses. J Biol Chem. 1993;268:15704-11. (IP)

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