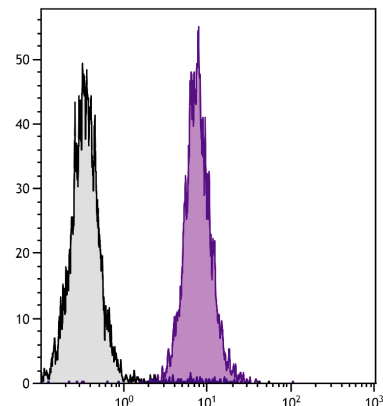




## Mouse Anti-Mouse H-2D<sup>b</sup>

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 <sup>®</sup> 488 (AF488)	0.1 mg



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

### Overview

<b>Clone</b>	27-11-13S
<b>Isotype</b>	Mouse (C3H) IgG <sub>2a</sub> K
<b>Immunogen</b>	BDF <sub>1</sub> mouse splenocytes
<b>Specificity</b>	Mouse H-2D <sup>b</sup>
<b>Alternate Name(s)</b>	MHC Class I

### Description

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

### Applications

FC – Quality tested <sup>2</sup>  
 ICC – Reported in literature <sup>3</sup>  
 IP – Reported in literature <sup>4</sup>  
 CMCD – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC, BIOT, and AF488 conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 $\mu\text{L}$ .		

**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

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- 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<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> 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 of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Alexa Fluor<sup>®</sup> 488 (AF488) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. 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

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

## References

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1. Ozato K, Sachs DH. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2<sup>b</sup> 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<sup>b</sup> molecule presenting an influenza virus nucleoprotein epitope shows enhanced ability at stimulating CD8<sup>+</sup> 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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