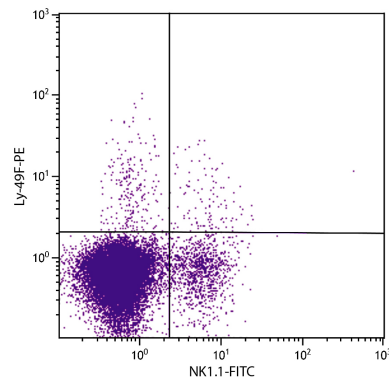




## Mouse Anti-Mouse Ly-49F

Cat. No.	Format	Size
1803-01	Purified (UNLB)	0.5 mg
1803-02	Fluorescein (FITC)	0.5 mg
1803-08	Biotin (BIOT)	0.5 mg
1803-09	R-phycoerythrin (PE)	0.1 mg
1803-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



C57BL/6 mouse splenocytes were stained with Mouse Anti-Mouse Ly-49F-PE (SB Cat. No. 1803-09) and Mouse Anti-Mouse NK1.1-FITC (SB Cat. No. 1805-02).

### Overview

<b>Clone</b>	HBF-719
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>1</sub> κ
<b>Immunogen</b>	CHO-K1 cells transfected with B6 allele of Ly49F gene
<b>Specificity</b>	Mouse Ly-49F
<b>Alternate Name(s)</b>	Ly-49

### Description

The monoclonal antibody HBF-719 reacts with the B6 allele of Ly49F, a member of the lectin-like homodimeric Ly49 family of cell surface receptors. Mouse Ly49 receptors exhibit allelic specificity for MHC class I Ia molecules and are thought to serve to prevent natural killer (NK) cells from attacking normal cells while allowing them to attack infected or transformed cells in which class I molecules have been downregulated. These inhibitory receptors are also expressed on subpopulations of mouse CD8<sup>+</sup> T cells. The HBF-719 antibody stains ~11% of NK1.1<sup>+</sup>CD3<sup>-</sup> splenocytes, and 3.5% (2.5 month old) to 10.0% (11 month old) of CD8<sup>+</sup> spleen cells from C57BL/6 mice.

### Applications

FC – Quality tested <sup>1,2</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC and BIOT conjugates	≤ 1 μg/10 <sup>6</sup> cells
	PE conjugate	≤ 0.2 μg/10 <sup>6</sup> 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

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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.**
- 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 (M)SDS.

## References

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1. Coles MC, McMahon CW, Takizawa H, Raullet DH. Memory CD8 T lymphocytes express inhibitory MHC-specific Ly49 receptors. *Eur J Immunol.* 2000;30:236-44. (Immunogen, FC)
2. Denning TL, Granger S, Mucida D, Graddy R, Leclercq G, Zhang W, et al. Mouse TCR $\alpha\beta^+$ CD8 $\alpha\alpha$  intraepithelial lymphocytes express genes that down-regulate their antigen reactivity and suppress immune responses. *J Immunol.* 2007;178:4230-9. (FC)

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