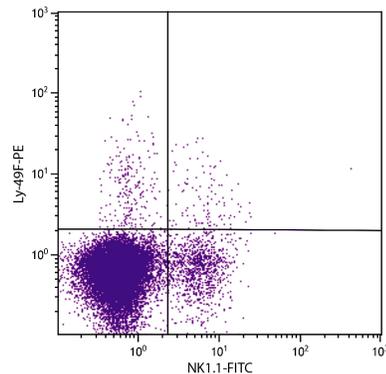




Mouse Anti-Mouse Ly-49F

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

Clone	HBF-719
Isotype	Mouse (BALB/c) IgG _{1κ}
Immunogen	CHO-K1 cells transfected with B6 allele of Ly49F gene
Specificity	Mouse Ly-49F
Alternate Name(s)	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⁺ T cells. The HBF-719 antibody stains ~11% of NK1.1⁺CD3⁻ splenocytes, and 3.5% (2.5 month old) to 10.0% (11 month old) of CD8⁺ spleen cells from C57BL/6 mice.

Applications

FC – Quality tested ^{1,2}

Working Dilutions

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

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.
- 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. Coles MC, McMahon CW, Takizawa H, Raulet 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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