Technical Data Sheet

PE Mouse anti-mouse Ly-49F

Product Information

550987 **Material Number:** 0.1 mg **Concentration:** 0.2 mg/ml HBF-719

CHO-K1 cells transfected with the B6 allele of the Ly-49F gene,1 Klra62 Immunogen:

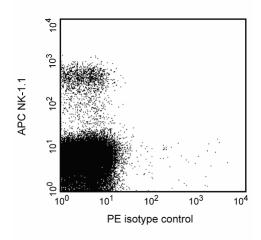
Transfected Cell Line

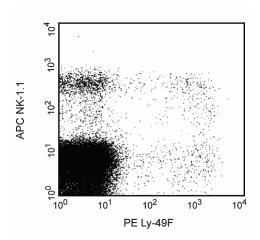
Mouse IgG1, κ Isotype: Reactivity: QC Testing: Mouse

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The HBF-719 antibody reacts with the B6 alloantigen of Ly-49F, an inhibitory receptor which is expressed on subsets of natural killer (NK) cells, NK-1.1+ (or DX5+) T lymphocytes (NK-T cells), and on a population of memory CD8+ T lymphocytes in C57BL/6 mice, 1 but not AKR/J, BALB/c, C3H/HeN, DBA/1, or SJL mice.3 The Ly-49 family of NK-cell receptors are disulfide linked type-II transmembrane protein homodimers with extracellular carbohydrate recognition domains (CRD). The Ly-49 family members are expressed independently, such that an individual NKor T-cell may display more than one class of Ly-49 receptor homodimers. Ly-49F has an ITIM (Immunoreceptor Tyrosine-based Inhibitory Motif) in its cytoplasmic tail. Therefore, it is probably an inhibitory receptor. It weakly binds to cells expressing the H-2d MHC class I alloantigens.





Two-color analysis of Ly-49F expression on splenic NK cells. C57BL/6 splenocytes were simultaneously stained with APC-conjugated mAb PK136 (anti-mouse NK-1.1, Cat. no. 557391, both panels) and PE-conjugated mAb MOPC-31C (mouse IgG1, κ isotype control, Cat. no. 550617, Left Panel) or PE-conjugated mAb HBF-719 (Right Panel). Flow cytometry was performed on a FACSCalibura (BDIS, San Jose, CA).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

_ <u>PT</u>		
Flow cytometry	Routinely Tested	

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Suggested Companion Products

Catalog Number	Name	Size	Clone
550617	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-31C

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
- 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Coles MC, McMahon CW, Takizawa H, Raulet DH. Memory CD8 T lymphocytes express inhibitory MHC-specific Ly49 receptors. *Eur J Immunol.* 2000; 30(1):236-244.(Immunogen)

Hanke T, Takizawa H, McMahon CW, et al. Direct assessment of MHC class I binding by seven Ly49 inhibitory NK cell receptors. *Immunity*. 1999; 11(1):67-77. (Biology)

Raulet DH, Held W, Correa I, Dorfman JR, Wu MF, Corral L. Specificity, tolerance and developmental regulation of natural killer cells defined by expression of class I-specific Ly49 receptors. *Immunol Rev.* 1997; 155:41-52.(Biology)

Takei F, Brennan J, Mager DL. The Ly-49 family: genes, proteins and recognition of class I MHC. Immunol Rev. 1997; 155:67-77. (Biology)

The Jackson Laboratory. Mouse Genome Database (MGD), Mouse Genome Informatics Web Site. Available: http://www.informatics.jax.org September, 2003. (Immunogen)

550987 Rev. 3 Page 2 of 2