

PE anti-mouse Ly-49C/F/H/I

Catalog No.	Size
FMPLY49CFHI-01-025	25 Tests
FMPLY49CFHI-01-100	100 Tests

Clone:	4A14B11
Isotype:	Hamster IgG
Other Name	Ly-49
Storage Buffer:	Phosphate-buffered solution, pH 7.2-7.4, containing 0.1% Proclin 300 and 0.2%BSA
Applications:	FC
Vol.per.Test:	5µl/test
Excitation Laser	Blue 488 nm,Green 532 nm,Yellow/Green 561 nm
Ex/Em Max	565nm/578nm
Reactivity:	mouse
Storage Condition:	Store at 4° C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.

Description:

The monoclonal antibody 4A14B11 reacts with murine Ly49C, Ly49F, Ly49H, and Ly49I, members of the lectin-like homodimeric Ly49 family of cell surface receptors. Mouse Ly49 receptors exhibit allelic specificity for MHC class I la 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 a subpopulation of mouse CD8+ T cells. The 4A14B11 antibody stains ~90% of NK1.1+CD3- splenocytes and ~6% of CD8+ spleen cells from C57BL/6 mice. The antibody also stains 30-80% of NK1.1+CD3- splenocytes in other mouse strains tested (BALB/c, C3H, 129, SJL, AKR/J).

Related Protocol:

Cell Surface Flow Cytometry Staining Protocol

Related Products:

Cat NO	Name
FXP001-100	RBC Lysing Buffer (10x)
FXP005	Cell Staining Buffer
FMU16/32-02-100	Purified anti-mouse CD16/32

REFERENCES:

1. Corral L, Takizawa H, Hanke T, Jamieson AM, Raulet DH. A new monoclonal antibody reactive with several Ly49 NK cell receptors mediates redirected lysis of target cells. *Hybridoma*. 1999;18:359-66. (Immunogen, Cyto, FC)
2. Chung JW, Kim MS, Piao Z, Jeong M, Yoon SR, Shin N, et al. Osteopontin promotes the development of natural killer cells from hematopoietic stem cells. *Stem Cells*. 2008;26:2114-23. (FC)

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