

PE/Cy7 anti-mouse Ly-49C/F/I/H

Catalog # / Size: 1141045 / 25 µg
1141050 / 100 µg

Clone: 14B11

Isotype: Hamster IgG

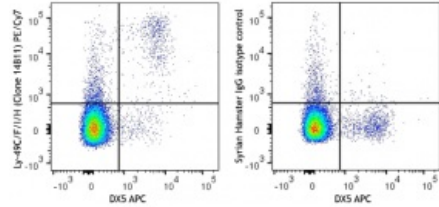
Immunogen: IL-2-activated killer cells (LAK) from C57BL/6 mice

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml



C57/BL6 mouse splenocytes were stained with TruStain fcX™ (clone 93), then True-Stain Monocyte Blocker™ (Cat. No. 426103), anti-mouse CD49b (clone DX5) APC, and anti-mouse Ly-49C/F/I/H (clone 14B11) PE/Cy7 (top) or Syrian Hamster IgG Isotype

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: induction of redirected lysis¹, and blocking² of the binding of H-2^d lymphoblasts to transfectants expressing Ly-49C, Ly-49F, and Ly-49I.

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Application References:

1. Ryan JC, *et al.* 1997. *Immunol. Rev.* 155:79.
2. Mason LH, *et al.* 1997. *J. Immunol.* 159:4187.
3. Lanier LL. 1998. *Ann. Rev. Immunol.* 16:359.
4. Yokoyama W, *et al.* 1993. *Ann. R*

Description: The 14B11 antibody reacts with a common epitope of Ly-49C/F/I/H family members also known as Ly-49 inhibitory receptors C, F, and I and activating receptor H. It does not react with other Ly-49 members (i.e., Ly-49A, B, D, and G). Ly-49 is a type-II transmembrane, disulfide-linked homodimer with C-type lectin extracellular domains that binds to MHC class I. Ly-49C/F/I/H is expressed on a

subset of NK cells, NK-T cells and some CD8⁺ cells. Ly-49C/F/I, like other members of this family, inhibits NK cell activation through the recognition and interaction of certain MHC class I haplotypes on potential target cells. Ly-49C, Ly-49F, and Ly-49I contain an ITIM motif in their cytoplasmic tails, while Ly-49H lacks ITIM. Ly-49H is encoded by the Cmv1r gene, which promotes resistance to infection by mouse cytomegalovirus (CMV). BALB/c mice are reported to lack the Ly-49H and Ly-49I receptors. The 14B11 antibody, when bound to NK cells, is capable of inducing redirected cell lysis and blocking NK cell effector function.

Antigen
References:

1. Ryan JC, *et al.* 1997. *Immunol. Rev.* 155:79.
2. Mason LH, *et al.* 1997. *J. Immunol.* 159:4187.
3. Lanier LL. 1998. *Ann. Rev. Immunol.* 16:359.
4. Yokoyama W, *et al.* 1993. *Ann. R*