



CELL LAB Hamster Anti-Mouse Ly49C/F/H/I

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732268	Purified (UNLB) Antibody	0.5 mg
732269	Fluorescein (FITC) Conjugate	0.5 mg
732270	Biotin (BIOT) Conjugate	0.5 mg
732271	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 14B11
Isotype: Syrian Hamster IgG
Specificity: An epitope common to the Ly49C, Ly49F, Ly49H and Ly49I allelic/splice variants

Monoclonal antibody (MAb) 14B11 reacts with murine Ly49C, Ly49F, Ly49H and Ly49I, members of the lectin-like homodimeric Ly49 family of cell surface receptors.¹ 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 down-regulated.² These inhibitory receptors are also expressed on a subpopulation of mouse CD8⁺ T cells. The 14B11 antibody stains ~90% of NK1.1⁺CD3⁻ splenocytes, and ~6% of CD8⁺ spleen cells from C57BL/6 mice.¹ The antibody also stains 30-80% of NK1.1⁺CD3⁻ splenocytes in other mouse strains tested (BALB/c, C3H, 129, SJL, and AKR/J).

APPLICATIONS

- Flow cytometry¹

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

Purified antibody	≤1 μg/10 ⁶ cells
FITC conjugate	≤1 μg/10 ⁶ cells
BIOT conjugate	≤1 μg/10 ⁶ cells
PE conjugate	≤0.2 μg/10 ⁶ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Coles MC, McMahon CW, Takizawa H and Raulet DH. 2000. Memory CD8 T lymphocytes express inhibitory MHC-specific Ly49 receptors. *Eur J Immunol*, 30:236-244.
2. Ljunggren HG and Karre K. 1990. In search of the 'missing self': MHC molecules and NK cell recognition. *Immunol Today*, 11:237-244.



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