



CELL LAB Rat Anti-Mouse Ly-6C

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732231	Purified (UNLB) Antibody	0.5 mg
732232	Fluorescein (FITC) Conjugate	0.5 mg
732233	Biotin (BIOT) Conjugate	0.5 mg
732234	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: HK1.4
Isotype: Rat IgG2c κ
Specificity: Murine Ly-6C, Mr 18 kDa

Ly-6C is a member of the Ly-6 multigene family of type V glycosphosphatidylinositol-anchored cell surface proteins. It is expressed on bone marrow cells, monocytes/macrophages, neutrophils, endothelial cells, and T-cell subsets. Mice with the Ly-6.2 allotype (for example, AKR, C57BL, C57BR, C57L, DBA/2, PL, SJL, SWR, 129) have subsets of CD4⁺Ly-6C⁺ and CD8⁺Ly-6C⁺ cells, while Ly-6.1 strains (for example, A, BALB/c, CBA, C3H/He, DBA/1, NZB) have only CD8⁺Ly-6C⁺ lymphocytes. Ly-6C may play a role in the development and maturation of lymphocytes.¹⁻⁴

APPLICATIONS

- Flow cytometry^{1,2}
- Immunohistochemistry (acetone-fixed, frozen sections)
- *In vitro* activation of T lymphocytes^{1,2}

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. Herold KC, Montag AG, Meyer SM, Wojcikowski C and Fitch FW. 1990. Expression of Ly-6C by T lymphocytes of NOD mice after CD3-complex stimulation. Identification of activated cells during insulinitis of prediabetic mice. *Diabetes*, 39: 815-820.
2. Jutila MA, Kroese FG, Jutila KL, Stall AM, Fiering S, Herzenberg LA, Berg EL and Butcher EC. 1988. Ly-6C is a monocyte/macrophage and endothelial cell differentiation antigen regulated by interferon-gamma. *Eur J Immunol*, 18:1819-1826.
3. Johnson R, Lancki DW and Fitch FW. 1993. Accessory molecules involved in antigen-mediated cytotoxicity and lymphokine production by cytotoxic T lymphocyte subsets. I. Identification of functions for the T cell surface molecules Ly-6C and Thy-1. *J Immunol*, 151:2986-2999.
4. Lancki DW, Fields P, Qian D and Fitch FW. 1995. Induction of lytic pathways in T cell clones derived from wild-type or protein tyrosine kinase Fyn mutant mice. *Immunol Rev*, 146:117-144.



Manufactured for:
Beckman Coulter, Inc.
4300 N. Harbor Blvd.
Fullerton, CA 92835
www.beckmancoulter.com

Printed in USA
Made in USA

© 2005 Beckman Coulter, Inc.
All Rights Reserved.

PN 734151-A