



CELL LAB Mouse Anti-Feline CD4

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
733033	Purified (UNLB) Antibody	0.5 mg
733034	Fluorescein (FITC) Conjugate	0.5 mg
733035	Biotin (BIOT) Conjugate	0.5 mg
733036	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 3-4F4
Isotype: Mouse IgG1 κ
Specificity: Feline CD4, Mr 65 kDa

Feline CD4, a member of the immunoglobulin superfamily of cell surface receptors, is a type I transmembrane glycoprotein that is expressed on the "helper/inducer" subpopulation of peripheral T lymphocytes. It is present on approximately 55% of thymocytes, 15% of splenocytes, 40% of lymph node cells, and 25% of peripheral blood lymphocytes.¹⁻³ CD4 functions as an accessory molecule in the recognition of foreign antigens in association with MHC Class II antigens by T cells.

APPLICATIONS

- Flow cytometry¹⁻³
- Immunohistochemistry (acetone-fixed, frozen tissue sections)
- Immunoprecipitation¹

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:

FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ 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. Ackley CD, Hoover EA, and Cooper MD. 1990. Identification of a CD4 homologue in the cat. *Tissue Antigens*, 35:92-98.
2. Ackley CD, Yamamoto JK, Levy N, Pedersen NC, and Cooper MD. 1990. Immunologic abnormalities in pathogen-free cats experimentally infected with feline immunodeficiency virus. *J Virol*, 64:5652-5655.
3. Dean GA, Quackenbush SL, Ackley CD, Cooper MD, and Hoover EA. 1991. Flow cytometric analysis of T-lymphocyte subsets in cats. *Vet Immunol Immunopathol*, 28:327-335.



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