



CELL LAB Mouse Anti-Chicken CD4

Cat. No.	Form	Quantity
733042	Purified (UNLB) Antibody	0.5 mg
733043	Fluorescein (FITC) Conjugate	0.5 mg
733044	Biotin (BIOT) Conjugate	0.5 mg
733045	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: CT-4
Isotype: Mouse IgG1 κ
Specificity: Chicken CD4 (Mr 64 kDa).

CD4 is a type I transmembrane glycoprotein expressed on approximately 70% of thymocytes, 15% of spleen cells and 40% of peripheral blood lymphocytes, but <1% of bursal cells.¹ Monoclonal antibody (MAb) CT-4 inhibits both PHA- and Con A-induced proliferative responses of splenocytes, and PWM-induced IL-2 production.¹ This antibody also reacts with turkey CD4 as demonstrated by flow cytometry and immunoprecipitation/Western blotting.

APPLICATIONS

- Flow cytometry¹
- Immunohistochemistry (acetone-fixed, frozen tissue sections)²
- Immunoprecipitation¹
- Inhibition of mitogen-induced proliferation¹

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

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

References

1. Chan MM, Chen CL, Ager LL and Cooper MD. 1988. Identification of the avian homologues of mammalian CD4 and CD8 antigens. *J Immunol*, 140:2133-2138.
2. Cooper MD, Bucy RP, and Chen CL. *The Avian Model in Developmental Biology: From Organism to Genes*, eds., Nicole LeDouarin, Françoise Dieterlen-Lievre and Julian Smith (Paris: Editions du Centre National de la Recherche Scientifique, pp. 239-249, 1990).



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