



CELL LAB Mouse Anti-Chicken CD5

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
733110	Purified (UNLB) Antibody	0.5 mg
733111	Fluorescein (FITC) Conjugate	0.5 mg
733112	Biotin (BIOT) Conjugate	0.5 mg
733113	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	2-191
Isotype:	Mouse (BALB/c) IgG1 κ
Immunogen:	Ed15 thymocytes
Specificity:	Chicken CD5, Mr 64 kDa (protein core of 57 kDa)

Chicken CD5 is a monomeric type I transmembrane glycoprotein whose extracellular region consists of three scavenger receptor cysteine-rich domains. During ontogeny, avian CD5 is first detectable in the thymus and bursa on embryonic day 10, about 2 to 3 days before the first TCR and surface Ig expression. By the time functional TCR and Ig gene rearrangements and their expression have been completed, all T and B cells in the primary lymphoid organs express CD5. In the periphery, $\alpha\beta$ T cells express a relatively high level of CD5, whereas a much lower level of the CD5 antigen is detected on $\gamma\delta$ T cells and B cells. The control of CD5 expression is activation-dependent, since activated T cells have up-regulated CD5 expression. As in mammals, CD5 may play an important role in the control of lymphocyte differentiation and activation.¹

APPLICATIONS

- Flow cytometry¹
- Immunoprecipitation¹
- Immunohistochemistry (acetone-fixed, frozen tissue sections)¹

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	$\leq 1 \mu\text{g}/10^6$ cells
	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. Koskinen R, Gobel TW, Tregaskes CA, Young JR and Vainio O. 1998. The structure of avian CD5 implies a conserved function. *J Immunol*, 160:4943-4950.



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

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