



CELL LAB Mouse Anti-Chicken ChT1

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
733143	Purified (UNLB) Antibody	0.5 mg
733144	Fluorescein (FITC) Conjugate	0.5 mg
733145	Biotin (BIOT) Conjugate	0.5 mg
733146	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	CT1
Isotype:	Mouse IgG1 κ
Immunogen:	Chicken thymocytes
Specificity:	ChT1 antigen (Mr 63/104 kDa) on chicken thymocytes ¹

ChT1, a member of the Ig superfamily with one V-like and one C2-like domain, is a T cell antigen that is expressed on the surface of embryonic thymocytes (day 10). In young chickens, about 90% of the thymocytes as well as a subpopulation of peripheral lymphocytes (which represent recent thymic emigrants) are ChT1 positive.¹⁻⁴ Expression in the periphery declines with age and, in correlation with partial thymectomy, indicates that ChT1 can be used as an accurate marker for studying thymic function.³ CT1 can block T cell differentiation *in vitro*, in thymic organ cultures and in thymocyte precursors cultured on stromal cell monolayers.⁴ CT1 also recognizes quail cortical thymocytes.¹

APPLICATIONS

- Identification and enumeration of ChT1⁺ cells by flow cytometry⁴
- Immunoprecipitation^{1,4}
- *In vitro* inhibition of T cell differentiation⁴

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. Chen CH, Chanh TC and Cooper MD. 1984. Chicken thymocyte-specific antigen identified by monoclonal antibodies: ontogeny, tissue distribution and biochemical characterization. *Eur J Immunol*, 14:385-391.
2. Houssaint E, Diez E and Jotereau FV. 1985. Tissue distribution and ontogenic appearance of a chicken T lymphocyte differentiation marker. *Eur J Immunol*, 15:305-308.
3. Kong F, Chen CH and Cooper MD. 1998. Thymic function can be accurately monitored by the level of recent T cell emigrants in the circulation. *Immunity*, 8:97-104.
4. Katevuo K, Imhof BA, Boyd R, Chidgey A, Bean A, Dunon D, Gobel TW and Vainio O. 1999. ChT1, an Ig superfamily molecule required for T cell differentiation. *J Immunol*, 162:5685-5694.



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