



CELL LAB Mouse Anti-Chicken CD3

Cat. No.	Form	Quantity
733037	Purified (UNLB) Antibody	0.5 mg
733038	Fluorescein (FITC) Conjugate	0.5 mg
733039	Biotin (BIOT) Conjugate	0.5 mg
733040	Phycoerythrin (PE) Conjugate	0.1 mg
733041	Spectral Red™ (SPRD) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: CT-3
Isotype: Mouse IgG1 κ
Specificity: Chicken CD3

CD3 is a member of the T cell receptor-associated CD3 complex. Monoclonal antibody (MAb) CT-3 recognizes a complex of at least three polypeptides of Mr 20-, 19-, and 17-kDa (two of which are N-glycosylated) on chicken T cells. The antibody also coprecipitates a polypeptide of 90-kDa from digitonin solubilized T cell lysates, which can be reduced to two polypeptides of Mr 50- and 40-kDa.¹ The CD3 antigen is expressed on approximately 30% of thymocytes, 70% of blood mononuclear cells and 60% of spleen cells, but <1% of cells in the bursa and bone marrow.^{1,2}

APPLICATIONS

- Flow cytometry^{1,2}
- Immunocytochemistry (acetone-fixed, frozen sections)²
- Immunosuppression of T cells²
- 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	$\leq 0.5 \mu\text{g}/10^6$ cells
SPRD 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.
- The Spectral Red (SPRD) 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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REFERENCES

1. Chen CL, Ager L, Gartland GL, and Cooper MD. 1986. Identification of a T3/T cell receptor complex in chickens. *J Exp Med*, 164:375-380.
2. Lahti JM, Chen CH, Sowder JT, Bucy RP, and Cooper MD. 1988. Characterization of the avian T cell receptor. *Immunol Res*, 7:303-317.



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