CELL LAB Mouse Anti-Chicken CD8α

Cat. No.	Form	Quantity
733046	Purified (UNLB) Antibody	0.5 mg
733047	Fluorescein (FITC) Conjugate	0.5 mg
733048	Biotin (BIOT) Conjugate	0.5 mg
733049	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: CT-8
Isotype: Mouse IgG1κ
Specificity: α chain (34-kDa) of chicken CD8

In the chicken, the CD8 molecule is present in two forms: (1) a homodimer of two α chains, and (2) a heterodimer of an α chain and a β chain.[1] While the vast majority of $CD8^+$ cells in the thymus, spleen, and blood of adult chickens express both CD8α- and CD8β-chains, a relatively large proportion of the $CD8^+$ TCR-γδ cells in the spleens of embryos and young chicks express only the α-chain of CD8. Among intestinal epithelial lymphocytes, the major $CD8^+$ T cell populations present in mice are conserved, but there is a population of TCR-γδ CD8αβ cells in the chicken that is not found in rodents.[1,3] Chicken CD8 is expressed on approximately 80% of thymocytes, 15% of blood mononuclear cells and 50% of spleen cells, but <1% of cells in the bursa and bone marrow.[1,2] Monoclonal antibody (MAb) CT-8 recognizes the CD8α chain.[1]

APPLICATIONS

- Identification and enumeration of $CD8^+$cells by flow cytometry[2]
- Identification of $CD8^+$ T cells in acetone-fixed, frozen tissue sections
- Immunoprecipitation[2]

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	≤1 μg/10^6 cells
	BIOT conjugate	≤1 μg/10^6 cells
	PE conjugate	≤0.2 μg/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/NaN_3.

- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 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

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

References

1. Tregaskes CA, Kong FK, Paramithiotis E, Chen CL, Ratcliffe MJ, Davison TF and Young JR. 1995. Identification and analysis of the expression of CD8 alpha beta and CD8 alpha alpha isoforms in chickens reveals a major TCR-gamma delta CD8 alpha beta subset of intestinal intraepithelial lymphocytes. *J Immunol,* 154:4485-4494.
2. 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.
3. Cooper MD, Bucy RP, and Chen CL. *The Avian Model in Developmental Biology: From Organism to Genes,* eds., Nicole LeDouarin, Francoise Dieterlen-Lievre and Julian Smith (Paris: Editions du Centre National de la Recherche Scientifique, pp. 239-249, 1990).

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