



CELL LAB Mouse Anti-Feline CD8

Cat. No.	Form	Quantity
733029	Purified (UNLB) Antibody	0.5 mg
733030	Fluorescein (FITC) Conjugate	0.5 mg
733031	Biotin (BIOT) Conjugate	0.5 mg
733032	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: fCD8
Isotype: Mouse IgG1 κ
Specificity: Feline CD8, Mr 70 kDa (38/31 kDa under reducing conditions)

Feline CD8, a member of the immunoglobulin superfamily of cell surface receptors, is a type II transmembrane glycoprotein that is expressed as a heterodimer on the “suppressor/cytotoxic” subpopulation of peripheral T lymphocytes. It is present on approximately 63% of thymocytes, 9% of splenocytes, 20% of lymph node cells, and 15% of peripheral blood lymphocytes.^{1,2} CD8 functions as a co-receptor with MHC Class I-restricted T cell receptors in antigen recognition.

APPLICATIONS

- Flow cytometry¹⁻²
- Immunohistochemistry (acetone-fixed, frozen tissue sections)
- 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	$\leq 0.2 \mu\text{g}/10^6$ 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. Klotz FW and Cooper MD, 1986. A feline thymocyte antigen defined by a monoclonal antibody (FT2) identifies a subpopulation of non-helper cells capable of specific cytotoxicity. *J Immunol*, 136:2510-2514.
2. Dean GA, Quackenbush SL, Ackley CD, Cooper MD, and Hoover EA. 1991. Flow cytometric analysis of T-lymphocyte subsets in cats. *Vet Immunol Immunopathol*, 28:327-335.



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