

CYTO-STAT®/COULTER CLONE® T8-ECD
CYTO-STAT®/COULTER CLONE® CD8-PC5

REF 6604728 - 50 tests

REF 6607011 - 50 tests

PN 4238034-CA



	T8-ECD	CD8-PC5
Specificity	CD8	CD8
Clone	SFCI21Thy2D3 ^{3,7}	SFCI21Thy2D3 ^{3,7}
Hybridoma	NS1 x BALB/c	NS1 x BALB/c
Immunogen	Human thymocytes	Human thymocytes
Ig Chain	IgG1	IgG1
Species	Mouse	Mouse
Source	Conditioned media	Conditioned media
Purification	Affinity chromatography	Affinity chromatography
Fluorescence	Excites at 486-580 nm / Emits at 610-635 nm	Excites at 486-580 nm / Emits at 660-680 nm
Conjugation	ECD (Phycoerythrin-Texas Red®-X)	PC5 (Phycoerythrin-Cy5)
Molar Ratio	ECD/Protein: 0.5-1.5	PC5/Protein: 0.5-1.5
Scatter Detection	Forward and/or side	Forward and/or side

ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

The CD8 antigen has a molecular weight of 68 kD.^{1,2} It is normally present on approximately 80% of thymocytes and approximately 30-35% of peripheral blood T lymphocytes.^{2,3} The CD8+ lymphocytes play a central role in regulating the immune response through suppressor and cytotoxic action.^{4,6} The CD8 antigen reacts with the Class I major histocompatibility complex (MHC) antigen on target cells.^{2,6}

REAGENT CONTENTS

T8-ECD: The antibody concentration is 0.5 µg/test.
 CD8-PC5: The antibody concentration is 0.5 µg/test.

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN₃ and stabilizers.

STATEMENT OF WARNINGS

1. These reagents contain 0.1% sodium azide. Sodium azide under acid 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, wash excessively with water.
2. Do not use antibody beyond the expiration date on label.
3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
5. Minimize exposure of reagents to light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use Good Laboratory Practices (GLP) when handling this reagent.
8. Harmful if swallowed.
9. After contact with skin, wash immediately with plenty of water.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2-8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this reagent (clear colorless to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation is necessary. This CYTO-STAT/COULTER CLONE reagent is used directly from the vial.

Bring reagent to 20-25°C prior to use.

USAGE

This reagent is for use with standard flow cytometry methodologies.

The use of T8-ECD or CD8 PC5 in this reagent is not intended for enumeration of CD8 cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. McMichael AJ, Beverley PCL, Cobbold S, Crumpton MJ, Gilks W, Gotch FM, Hogg N, Horton M, Ling N, MacLennan ICM, Mason DY, Milstein C, Spiegelhalter D and Waldman H, eds: 1987. *Leukocyte Typing III*. Oxford University Press, Oxford, UK.
2. Reinherz EL, Meuer SC and Schlossman SF: 1983. The delineation of antigen receptors on human T lymphocytes. *Immunol Today* 4:5-8.
3. Reinherz EL, Hussey RE, Fitzgerald K, Snow P, Terhorst C and Schlossman SF: 1981. Antibody directed at a surface structure inhibits cytolytic but not suppressor function of human T lymphocytes. *Nature* 294:168-170.
4. Morimoto C, Letvin NL, Distaso JA, Aldrich WR and Schlossman SF: 1985. The isolation and characterization of the human suppressor inducer T cell subset. *J Immunol* 134:1508-1515.
5. Morimoto C, Letvin NL, Distaso JA, Brown HM and Schlossman SF: 1986. The cellular basis for the induction of antigen-specific T8-suppressor cells. *Eur J Immunol* 16:198-204.
6. Meuer SC, Schlossman SF and Reinherz EL: 1982. Clonal analysis of human cytotoxic T lymphocytes: T4+ and T8+ effector T cells recognize different major histocompatibility regions. *Proc Natl Acad Sci USA* 79:4395-4399.
7. Reinherz EL, Haynes BF, Nadler LM and Berstein ID, eds: 1986. *Leukocyte Typing II*. Springer-Verlag, New York, NY.

PRODUCT AVAILABILITY

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 PN 6604728 - 50 tests (0.5 mL)

OR

CYTO-STAT/COULTER CLONE CD8-PC5
 PN 6607011 - 50 tests (0.5 mL)

ECD is licensed under patents 4,542,104 and 4,520,110.


PC5 is licensed under patents 4,542,104 and 4,520,110.

Cy5 is licensed under patents 4,981,977 and 5,268,486.

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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

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