CYTO-STAT/
COULTER CLONE
T4-ECD

REF **6604727**

PN 4236238-DA

	T4-ECD
Specificity	CD4
Clone	SFCI12T4D11[6]
Hybridoma	NS1 x BALB/c
Immunogen	Peripheral human T-lymphocytes
Ig Chain	IgG1
Species	Mouse
Source	Conditioned Media
Purification	Affinity Chromatography
Fluorescence	Excites at 486-580 nm Emits at 610-635 nm
Conjugation	ECD (Phycoerythrin-Texas Red)
Molar Ratio	ECD/Protein 0.5-1.5

ANALYTE SPECIFIC REAGENT
Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY
The CD4 antigen has a molecular weight of 59 kd.[1-3] It is present on thymocytes and the inducer T lymphocyte population in peripheral blood.[2,4] It is also expressed at low density on monocytes. The CD4+ lymphocytes play a central role in regulating the immune response.[5] In peripheral blood, the CD4+ lymphocytes provide an inducer function for T-T, T-B, and T-macrophage interaction. The CD4 antigen reacts with the class II major histocompatibility complex (MHC) antigen on target cells.[2]

REAGENT
See table above.

REAGENT CONTENTS
The antibody concentration is 25 µg/mL.

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN_3 and stabilizers.

STATEMENT OF WARNINGS
1. This reagent contains 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. 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.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use reagent beyond the expiration date on vial label.
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagents or erroneous results may 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.

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.

STORAGE AND HANDLING CONDITIONS AND STABILITY
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.

STORAGE AND STABILITY
This reagent is stable to the expiration date on the vial label when stored at 2-8°C. Do not freeze. Minimize exposure to light.

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, UK: Oxford University Press.
2. Reinherz EL, Meuer SC and Schlossman SF. 1983. The delineation of antigen receptors on human T lymphocytes. Immunol Today 4:5-8.
3. Shaw S. 1994. Leukocyte Differentiation Antigen Database (LDAD). Ver 1.10 National Institute of Health Fifth International Workshop on Leukocyte Differentiation Antigens.
4. Reinherz EL, Morimoto C, Fitzgerald KA, Hussey RE, Daley JF and Schlossman SF. 1982. Heterogeneity of human T4+ inducer T cells defined by a monoclonal antibody that delineates two functional subpopulations. J Immunol 128:463-468.
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. Reinherz EL, Haynes BF, Nadler LM and Bernstein ID. 1986. Leukocyte Typing II. New York, NY: Springer-Verlag, Vol 2: pp. 8,15-25.

PRODUCT AVAILABILITY
CYTO-STAT/COULTER CLONE T4-ECD
REF 6604727 - 0.5 mL

TRADEMARKS

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