

**CYTO-STAT®/
COULTER CLONE®
CD3-ECD**

[REF] 6604701 - 50 tests

PN 4236215-F



ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

The CD3 antigen consists of two glycoproteins with molecular weights of 20 and 25 kD.¹ It is a lineage-specific 'pan T cell' antigen that is normally present on the cell surface of mature thymocytes and resting and activated peripheral T lymphocytes (both inducer and suppressor/cytotoxic populations).¹⁻⁶

REAGENT

CYTO-STAT/COULTER CLONE CD3-ECD
Monoclonal Antibody
PN 6604701 - 50 tests (0.5 mL)

CLONE: HIT3A was derived from the hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with normal human peripheral blood T lymphocytes and human thymocytes.²

Ig CHAIN: Mouse IgG2a heavy chain and Kappa light chains

SOURCE: Mouse ascites fluid

PURIFICATION: Affinity chromatography

CONJUGATION: CD3-ECD (Phycoerythrin-Texas Red)

MOLAR RATIO: ECD/protein 0.5-1.5

FLUORESCENCE:
ECD (Red) Excites at 486-580 nm
Emits at 610-635 nm

REAGENT CONTENTS

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% Na₃ 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. 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. Do not expose reagents to strong 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 or expose to strong 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 CD3-ECD in this reagent is not intended for enumeration of CD3 cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. McMichael AJ, Beverley PCL, Cobbold S, Crompton 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, Haynes BF, Nadler LM and Berstein ID, eds: 1986. Leukocyte Typing II. Springer-Verlag, New York, NY.
3. Reinherz EL and Schlossman SF: 1980. The differentiation and function of human T lymphocytes. Cell 19:821-827.
4. Caligiuri M, Murray C, Buchwald D, Levine H, Cheney P Peterson D, Komaroff AL and Ritz J: 1987. Phenotypic and functional deficiency of natural killer cells in patients with chronic fatigue syndrome. J Immunol 139:3306-3313.
5. Reinherz EL, Meuer S, Fitzgerald KA, Hussey RE, Levine H and Schlossman SF: 1982. Antigen recognition by human T lymphocytes is linked to surface expression of the T3 molecular complex. Cell 30:735-743.
6. Meuer SC, Acuto O, Hussey RE, Hodgdon JC, Fitzgerald KA, Schlossman SF and Reinherz EL.: 1983. Evidence for the T3-associated 90K heterodimer as the T-cell antigen receptor. Nature 303:808-810.

PRODUCT AVAILABILITY

CYTO-STAT/COULTER CLONE CD3-ECD
PN 6604701 - 50 tests (0.5 mL)

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

For additional information or if damaged product is received in the USA, call 800-526-7694. Outside the USA, contact your local Beckman Coulter Representative.

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