

**CYTO-STAT®/
COULTER CLONE®
B4 (Lytic)-ECD**

REF 6604551 - 50 tests

PN 4236182-D



ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

B4 (Lytic) recognizes the CD19 pan-B lymphocyte antigen which has a molecular weight of 95 kD.¹ This antigen is also expressed on early B-cell precursors and pre-B cells. CD19 is not present on plasma cells, T lymphocytes, myeloid cells, erythrocytes or platelets.^{1,2}

REAGENT

CYTO-STAT/COULTER CLONE B4 (Lytic)-ECD
Monoclonal Antibody

PN 6604551 - 50 tests (0.5 mL)

CLONE: HD237, a switch variant of HD37, was derived from the hybridization of mouse NS1 myeloma cells with spleen cells from BALB/c mice immunized with leukemic cells from a patient with hairy cell leukemia.³

Ig CHAIN: Mouse IgG2b heavy chain and Kappa light chain

SOURCE: Mouse ascites fluid

PURIFICATION: Affinity chromatography

CONJUGATION: B4 (Lytic)-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% Na₂S₂O₃ 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 B4(Lytic)-ECD in this reagent is not intended for enumeration of CD19 cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. Nadler LM, Anderson KC, Marti G, Bates M, Daley JF and Schlossman SF: 1983. B4, a human B lymphocyte-associated antigen expressed on normal, mitogen-activated, and malignant B lymphocytes. *J Immunol* 131:244-250.
2. Kiesel S, Haas R, Molderhauer G, Ludemann A, Hunstein W, Korbling M, Nadler L, Messner H and Dorken B: 1987. Elimination of clonogenic malignant B cells in autologous bone marrow transplantation with the monoclonal antibodies HD237 (CD19) and B1 (CD20) with complement. In: *Proceedings of the first IUIS Conference on Clinical Immunology*, Elsevier Science Publishers, Amsterdam.
3. 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.

PRODUCT AVAILABILITY

CYTO-STAT/COULTER CLONE B4 (Lytic)-ECD
PN 6604551 - 50 tests (0.5 mL)

ECD is licensed under patent 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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