CYTO-STAT®/ COULTER CLONE® B4 (Lytic)-RD1/J5-FITC

REF 6604241 - 50 tests

PN 4236079-F

BECKMAN COULTER™

	CLONE 1	CLONE 2
Specificity	CD19	CD10
Clone	HD237 (IgG2b)[2]	HD237 (IgG2b)[3]
Hybridoma	P3-NS1/1-AG4-1 x BALB/c	NS/1-AG4 x BALB/c
Immunogen	Leukemic cells from a patient with hairy cell leukemia	Tumor cells from a patient with a CALLA positive non-T cell ALL
Ig Chain	IgG2b	IgG2a
Species	Mouse	Mouse
Source	Ascites fluid	Ascites fluid
Purification	Affinity chromatography	Affinity chromatography
Fluorescence	Excites at 486-580 nm / Emits at 568-590 nm	Excites at 468-509 nm / Emits at 504-541 nm
Conjugation	RD1 (Phycoerythrin)	FITC (Fluorescein Isothiocyanate)
Molar Ratio	RD1/Protein: 0.5-1.5	FITC/Protein: 3-10

ANALYTE SPECIFIC REAGENT
Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY
B4 (Lytic) monoclonal antibody recognizes the pan-B CD19 lymphocyte antigen, which has a molecular weight of 95 kD.[1] It reacts with B cells including early B-cell precursors and pre-B cells. Plasma cells are negative. B4 (Lytic) does not bind to T lymphocytes, myeloid cells, erythrocytes or platelets. It stains B-cell areas in lymphoid organs and dendritic reticulum cells in lymphoid follicles.[1,2]

J5 (CD10), a Common Acute Lymphoblastic Leukemia Antigen (CALLA), has a molecular weight of 100 kD.[3] It is found on some granulocytes and bone marrow, fetal liver, renal tubular, glomerular epithelial and breast myoepithelial cells from some specimens.[4]

REAGENT CONTENTS
The concentration of nonantibody reagents in 0.5 mL (1 vial) 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. 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 the reagent (clear, colorless to pinkish liquid) or any major variation in values obtained for control samples might indicate deterioration and the reagent should not be used.

REAGENT PREPARATION
No preparation is necessary for CYTO-STAT/COULTER CLONE B4 (Lytic)-RD1/J5-FITC. 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)-RD1 and J5-FITC in this reagent is not intended for the enumeration of CD19 or CD10 cells in clinical diagnostic applications.

SELECTED 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. Ritz J, Pesando JM, Notis-McConarty J, Lazarus H and Schlossman SF: 1980. A monoclonal antibody to human acute lymphoblastic leukaemia antigen. Nature 283-583-585.
4. Cossman H, Neckers LM, Leonard WJ and Greene WC: 1983. Polymorphonuclear neutrophils express the common acute lymphoblastic leukemia antigen. J Exp Med 157:1064-1069.

PRODUCT AVAILABILITY
CYTO-STAT/COULTER
B4 (Lytic)-RD1/J5-FITC
PN 6604241 - 50 tests (0.5 mL)

RD1 is licensed under patent 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.

TRADEMARKS

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