

**CYTO-STAT®/  
COULTER CLONE®  
J5-FITC,  
J5-RD1**

REF 6604107 - 50 tests

REF 6604120 - 50 tests

PN 4236044-F



	CLONE 1	CLONE 2
<b>Specificity</b>	CD10	CD10
<b>Clone</b>	J5 <sup>1,5</sup>	J5 <sup>1,5</sup>
<b>Hybridoma</b>	NS/1 x BALB/c	NS/1 x BALB/c
<b>Immunogen</b>	Tumor cells from a patient with a CALLA positive non-T cell ALL	Tumor cells from a patient with a CALLA positive non-T cell ALL
<b>Ig Chain</b>	IgG2a	IgG2a
<b>Species</b>	Mouse	Mouse
<b>Source</b>	Ascites fluid	Ascites fluid
<b>Purification</b>	Affinity chromatography	Affinity chromatography
<b>Fluorescence</b>	Excites at 468-509 nm / Emits at 504-541 nm	Excites at 486-580 nm / Emits at 568-590 nm
<b>Conjugation</b>	FITC (Fluorescein Isothiocyanate)	RD1 (Phycoerythrin)
<b>Molar Ratio</b>	FITC/Protein: 3-10	RD1/Protein: 0.5-1.5

### ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

### ANTIBODY SPECIFICITY

The J5 antibody recognizes CD10, also known as human Common Acute Lymphoblastic Leukemia Antigen (CALLA), with a molecular weight of 100 kD.<sup>1</sup> J5 is a hematopoietic differentiation antigen with heterogenous expression on blast cell populations.<sup>2,3</sup> This antigen is also weakly expressed on peripheral blood granulocytes.<sup>4</sup>

### REAGENT CONTENTS

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN<sub>3</sub> 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 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 to the expiration date on the vial label when stored at 2-8°C. Do not freeze. Minimize exposure to light.

### EVIDENCE OF DETERIORATION

Any change in the physical appearance of these reagents\*, or any major variation in values obtained for control samples may indicate deterioration and the reagents should not be used.

### \*Normal Appearance of Reagents

FITC labeled: Liquid: Clear, colorless to yellowish liquid

RD1 labeled: Liquid: Clear, colorless to pinkish liquid

### REAGENT PREPARATION

No reconstitution is necessary. This CYTO-STAT/COULTER CLONE monoclonal antibody may be used directly from the vial.

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

### USAGE

These reagents are for use with standard flow cytometry methodologies.

The use of J5-FITC and J5-RD1 in this reagent is not intended for enumeration of CD10 cells in clinical diagnostic applications.

### SELECTED REFERENCES

1. Ritz J, Pesando JM, Notis-McConarty J, Lazarus H and Schlossman SF: 1980. A monoclonal antibody to human acute lymphoblastic leukemia antigen. *Nature* 283: 583.
2. Clavell LA, Lipton JM, Blast RC, Kudisch M, Pesando J, Schlossman SF and Ritz J: 1981. Absence of common ALL antigen on normal bipotent myeloid, erythroid, and granulocyte progenitors. *Blood* 58: 333.
3. Greaves MF: 1981. Monoclonal antibodies as probes for leukemia heterogeneity and hemopoietic differentiation. In: *Leukemia Markers*, ed. W Knapp, Academic Press, p. 463.
4. Cossman J, Neckers LM, Leonard WJ and Greene WC: 1983. Polymorphonuclear neutrophils express the common acute lymphoblastic leukemia antigen. *J Exp Med* 157: 1064.
5. Bernard A, Boumsell L, Dausset J, Milstein C and Schlossman SF, eds: 1984. *Leukocyte Typing*. Springer-Verlag, New York, NY.

### PRODUCT AVAILABILITY

CYTO-STAT/COULTER CLONE J5-FITC  
PN 6604107 - 50 tests (0.5 mL)  
CYTO-STAT/COULTER CLONE J5-RD1  
PN 6604120 - 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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