

REF 6602143 - 100 tests

PN 179055-A



## 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> CD10 is a hematopoietic differentiation antigen also weakly expressed on peripheral blood granulocytes.<sup>2-4</sup>

## REAGENT

COULTER CLONE J5

PN 6602143 - 100 tests (0.5 mL)

**CLONE:** J5 was derived from the hybridization of mouse NS-1 myeloma cells with spleen cells from BALB/c mice immunized with tumor cells from a patient with a CALLA positive non-T cell ALL.<sup>1,5</sup>

**Ig CHAIN:** Mouse IgG2a heavy and kappa light chains

**SOURCE:** Ascites Fluid

**PURIFICATION:** Affinity chromatography

## REAGENT CONTENTS

The final concentration of nonantibody reagents when reconstituted is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl and 0.1% NaN<sub>3</sub>.

## STATEMENT OF WARNINGS

- 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.
- 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.
- Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
- Do not use reagents beyond the expiration date on the vial labels.
- Minimize exposure of reagents to light during storage or incubation.
- Avoid microbial contamination of reagents or erroneous results may occur.
- Use Good Laboratory Practices (GLP) when handling these reagents.
- Harmful if swallowed.
- After contact with skin, wash immediately with plenty of water.

## STORAGE CONDITIONS AND STABILITY

Unreconstituted, lyophilized reagents are stable to the expiration date on the vial label when stored at 2-8°C. Do not freeze. Minimize exposure to light.

Reconstituted stock solution of lyophilized reagent is stable as follows:

- 6 months when stored at 2-8°C or 0 to -20°C when reconstituted using the Reconstitution Procedure described in the REAGENT PREPARATION section. If all of a reconstituted reagent is not to be used within 6 months, follow the Freezing Procedure.
- 1 year when stored at -70°C using the freezing procedure.

## FREEZING PROCEDURE

### MATERIALS REQUIRED BUT NOT SUPPLIED:

PBS - Phosphate Buffered Saline (pH=7.2) PN 6603369  
PBS containing 2% heat-inactivated fetal or newborn calf serum (FCS). Dilute 2 mL of calf serum to 100 mL with PBS.

- Dilute the reconstituted stock solution of the COULTER CLONE reagent with PBS containing 2% FCS prior to freezing as follows:

Add 5 µL reconstituted stock solution (1 test\*) to 100 µL PBS with 2% FCS\*\*.

\*These may be frozen in multiple test volume aliquots.

\*\*This yields 2X of the concentration of the working solution.

- Prior to use, allow the frozen aliquot to reach 20-25°C.
- The frozen aliquot, at 2X the final concentration, must be further diluted to equal the total volume as calculated in the REAGENT PREPARATION Section. Dilute each aliquot with the appropriate volume of PBS without 2% FCS and mix well.
- Avoid repeated freeze/thaw cycles. This will denature the antibody protein.
- Do not store in a self-defrosting freezer.

## EVIDENCE OF DETERIORATION

Any change in the physical appearance of this reagent\*, or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used. If the lyophilized material appears moist, do not use.

### \*Normal Appearance of Reagent

Purified: Lyophilized-white plug  
Reconstituted-clear, colorless liquid

## REAGENT PREPARATION

Reconstitute the lyophilized COULTER CLONE J5 reagent by adding 500 µL of distilled water to the vial. This is the stock solution. Centrifuge the stock solution at 20-25°C at 100,000 x g for 10 minutes to optimize staining results. Use this liquid reagent directly from the vial as the stock solution. The reagent working solution\* is prepared as follows (volume listed is on a per test basis):

Add 5 µL stock solution to 195 µL PBS\*\*.

\*Diluted reagent working solution is good for day of preparation only.

\*\*PBS - Phosphate Buffered Saline (pH=7.2).

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

## USAGE

This reagent is for use with standard flow cytometry and/or fluorescence microscopy methodologies.

## SELECTED RESEARCH REFERENCES

- 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.

- 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.
- Greaves, MF. 1981. Monoclonal antibodies as probes for leukemia heterogeneity and hemopoietic differentiation. In: Leukemia Markers, ed. W Knapp, Academic Press, p. 463.
- Cossmann J, Neckers LM, Leonard WJ and Greene WC. 1983. Polymorphonuclear neutrophils express common acute lymphoblastic leukemia antigen. J Exp Med 157:1064.
- Bernard A, Boumsell L, Dausset J, Milstein C and Schlossman SF, eds. 1984. Leukocyte Typing. New York, NY: Springer-Verlag.

## PRODUCT AVAILABILITY

COULTER CLONE J5

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For additional information in the USA, call 800-526-7694. Outside the USA, contact your local Beckman Coulter Representative.

## TRADEMARKS

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