

**ANALYTE SPECIFIC REAGENT**

Analytical and performance characteristics are not established.

**ANTIBODY SPECIFICITY**

My7 (CD13) is specific for human myeloid cells.<sup>1-3</sup> My7 (CD13) antigen is also known as aminopeptidase N and is thought to be involved in regulation of peptide-mediated signal.<sup>4</sup> CD13 antigen is expressed on peripheral blood granulocytes and monocytes and on 5-40% of normal bone marrow cells at low antigen density. The positive fraction includes a subset of myeloid colony forming cells (CFU-C). CD13 is not present on erythrocytes, platelets, B lymphocytes, T lymphocytes or null lymphocytes.<sup>1,5</sup>

**REAGENT**

COULTER CLONE My7-RD1  
PN 6602989 - 100 tests (0.5 mL)

**CLONE:** 366 was derived from the hybridization of mouse NS-1 myeloma cells with spleen cells from BALB/c mice immunized with human acute myelomonocytic leukemia cells.<sup>1,6</sup>

**Ig CHAIN:** Mouse IgG1 heavy and kappa light chains.

**SOURCE:** Mouse ascites fluid.

**PURIFICATION:** Ion exchange chromatography.

**CONJUGATION:** My7-RD1 (Phycoerythrin)

**MOLAR RATIO:** RD1/protein 0.5-1.5

**FLUORESCENCE:**

RD1 (Orange) Excites at 486-580 nm  
Emits at 568-590 nm

**REAGENT CONTENTS**

The concentration of nonantibody reagents in 0.5 mL (My7-RD1) 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. 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.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use reagent beyond the expiration date on the vial label.

5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagents or erroneous results may 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 reconstitution is necessary for COULTER CLONE My7-RD1. This COULTER CLONE reagent is used directly from the vial to prepare the reagent working 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 methodologies.

The use of My7-RD1 in this reagent is not intended for enumeration of CD13 cells in clinical diagnostic applications.

**SELECTED RESEARCH REFERENCES**

1. Griffin JD, Ritz J, Nadler LM and Schlossman SF. 1981. Expression of myeloid differentiation antigens on normal and malignant myeloid cells. *J Clin Invest* 68:932-941.
2. Griffin JD, Mayer RJ, Weinstein HJ, Rosenthal DS, Coral FS, Beveridge RP and Schlossman SF. 1983. Surface marker analysis of acute myeloblastic leukemia: Identification of differentiation associated phenotypes. *Blood* 62:557-563.
3. Letvin NL, Todd RF III, Pally LS, Schlossman SF and Griffin JD. 1983. Conservation of myeloid surface antigens on primate granulocytes. *Blood* 61:408-410.
4. Barclay AN, Birkeland ML, Brown MH, Beyers AD, Davis SJ, Somoza C and Williams AF. 1993. *The Leukocyte Antigen Facts Book*. London:Academic Press Limited, pp. 130-131.
5. Griffin JD, Ritz J, Beveridge RP, Lipton JM, Daley JF and Schlossman SF. 1983. Expression of My7 antigen on myeloid precursor cells. *Int J Cell Cloning* 1:33-48.
6. Reinherz EL, Haynes BF, Nadler LM and Berstein IK, eds. 1986. *Leukocyte Typing II*. New York, NY:Springer-Verlag. p. 405.

**PRODUCT AVAILABILITY**

COULTER CLONE My7-RD1  
PN 6602989 - 100 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**

Beckman Coulter logo, COULTER CLONE, and CYTO-STAT are trademarks of Beckman Coulter, Inc.



Beckman Coulter, Inc.  
4300 N. Harbor Blvd.  
Fullerton, CA 92835  
[www.beckmancoulter.com](http://www.beckmancoulter.com)

Printed in USA

Made in USA

©2004 Beckman Coulter, Inc.  
All Rights Reserved.