

COULTER CLONE®

My9,
My9-FITC,
My9-RD1

REF 6602689 - 100 tests

REF 6602985 - 100 tests

REF 6603042 - 100 tests

PN 179056-B



	My9	My9-FITC	My9-RD1
Specificity	CD33	CD33	CD33
Clone	906 ²	906 ²	906 ²
Hybridoma	NS/1-AG4 x BALB/c	NS/1-AG4 x BALB/c	NS/1-AG4 x BALB/c
Immunogen	Blast cells from a patient with chronic myeloid leukemia	Blast cells from a patient with chronic myeloid leukemia	Blast cells from a patient with chronic myeloid leukemia
Ig Chain	IgG2b	IgG2b	IgG2b
Species	Mouse	Mouse	Mouse
Source	Ascites fluid	Ascites fluid	Ascites fluid
Purification	Ion exchange chromatography	Ion exchange chromatography	Ion exchange chromatography
Fluorescence	Non Applicable	Excites at 468-509 nm / Emits at 504-541 nm	Excites at 486-580 nm / Emits at 568-590 nm
Conjugation	Non Applicable	FITC (Fluorescein Isothiocyanate)	RD1 (Phycoerythrin)
Molar Ratio	Non applicable	FITC/Protein : 5-10	RD1/Protein : 0.5-1.5
Scatter Detection	Forward and/or side	Forward and/or side	Forward and/or side

ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

My9 (CD33) reacts with a 67 kD glycoprotein.¹ This molecule is expressed by peripheral blood monocytes but not granulocytes, erythrocytes, lymphocytes or platelets.² Approximately 30% of normal bone marrow cells express My9, including myeloblasts, promyelocytes and myelocytes. The myeloid colony forming cells express My9, as do a subset of erythroid burst forming cells. Erythroid colony forming cells do not express My9.^{2,3}

REAGENTS

See table above.

REAGENT CONTENTS

The antibody concentration in My9 is 5.0 µg/test and in My9-FITC is 1.25 µg/test. The final concentration of nonantibody reagents when reconstituted is 0.2% BSA (My9); gelatin (My9-FITC), 0.01 M potassium phosphate, 0.15 M NaCl and 0.1% NaN₃.

The antibody concentration in My9-RD1 is 2.5 µg/test. The concentration of nonantibody reagents in 0.5 mL (My9-RD1) is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN₃ 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

Liquid or 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.

The stock solution of reconstituted 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.

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

Add 5 µL of reconstituted stock solution (1 test*) to 100 µL PBS with 2% FCS**.
*These may be frozen in multiple test volume aliquots.
**This yields 2X the concentration of the working solution.
2. Prior to use, allow the frozen aliquot to reach 20-25°C.
3. 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.
4. Avoid repeated freeze/thaw cycles. This will denature the antibody protein.
5. 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 Reagents

Purified: Lyophilized-white plug
Reconstituted-clear, colorless liquid
FITC labeled: Lyophilized-white to yellow-orange plug
Reconstituted-clear, colorless to yellow-green liquid
RD1 labeled: Clear, colorless to pinkish liquid

REAGENT PREPARATION

Reconstitute the lyophilized COULTER CLONE My9 and My9-FITC 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 to prepare the reagent working solution.

No reconstitution is necessary for COULTER CLONE My9-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

These reagents are for use with standard flow cytometry and/or fluorescence microscopy (My9 and My9-FITC) methodologies.

The use of My9, My9-FITC and My9-RD1 in this reagent is not intended for enumeration of CD33 cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. Knapp W, Dorken B, Bilks WR, Rieber EP, Schmidt RE, Stein H and von dem Borne AEGK, eds. 1989. Leukocyte Typing IV. Oxford, UK:Oxford University Press, p. 83.
2. Bernard A, Boumsell L, Dausset J, Milstein C and Schlossman SF, eds. 1984. Leukocyte Typing. New York, NY:Springer-Verlag, p. 404.
3. Griffin JD, Lynch D, Sabbath K, Larcome P and Schlossman SF. 1984. A monoclonal antibody reactive with normal and leukemic human myeloid progenitor cells. Leukemia Research 8:521.

PRODUCT AVAILABILITY

COULTER CLONE My9
PN 6602689 - 100 tests (0.5 mL)
OR
COULTER CLONE My9-FITC
PN 6602985 - 100 tests (0.5 mL)
OR
COULTER CLONE My9-RD1
PN 6603042 - 100 tests (0.5 mL)

RD1 is licensed under patent 4,520,110.

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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