

	My7
Specificity	CD13
Clone	366
Hybridoma	NS1 x BALB/c
Immunogen	Human acute myelomonocytic leukemia cells ^{1,6}
Ig Chain	IgG1
Species	Mouse
Source	Ascites Fluid
Purification	Ion Exchange Chromatography
Fluorescence	Non Applicable
Conjugation	Non Applicable
Molar Ratio	Non Applicable
Scatter Detection	Forward and/or side

REF 6602626 - 100 tests

PN 179058-AA



ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

My7 (CD13) is specific for human myeloid cells.¹⁻³ My7 (CD13) antigen is also known as aminopeptidase N and is thought to be involved in regulation of peptide-mediated signal.⁴ 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.^{1,5}

REAGENT

See table above.

REAGENT CONTENTS

The antibody concentration is 5.0 µg/test.

The final concentration of nonantibody reagents when reconstituted is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl and 0.1% NaN₃.

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

Unreconstituted, lyophilized reagent is 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 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 Reagent**

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

REAGENT PREPARATION

Reconstitute the lyophilized COULTER CLONE My7 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 fluorescence microscopy and/or flow cytometry methodologies.

The use of My7 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
REF 6602626 - 100 tests (0.5 mL)

TRADEMARKS

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