

COULTER CLONE® MslgG1, MslgG1-FITC, MslgG1-RD1

ISOTYPIC CONTROL
FOR RESEARCH USE ONLY.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.

SUMMARY AND EXPLANATION

Used as a quality control reagent to monitor the levels of nonspecific staining for cell surface staining procedures which use a primary monoclonal antibody of the mouse IgG1 subclass to identify and enumerate the percentage of either lymphocytes or monocytes.^{1,2}

SPECIFICITY: Non-human tissue and serum protein.

CLONE: 2T8-2F5 (MslgG1) was derived from the hybridization of mouse NS/1-AG4 cells with spleen cells from BALB/c mice.

Ig CHAIN COMPOSITION: Mouse IgG1 heavy and Kappa light chains.

CYTOTOXICITY: None by direct lysis.

SOURCE: Conditioned culture medium.

PURIFICATION: Affinity chromatography.

CONJUGATION: MslgG1 - None.

MslgG1-FITC - Fluorescein isothiocyanate.

MslgG1-RD1 - Phycocerythrin.

MOLAR RATIO: FITC/Protein 5 - 10.

RD1/Protein 0.5 - 1.5.

FLUORESCENCE: FITC (Green) - Excites at 468-509 nm.

Emits at 504-541 nm.

RD1 (Red) - Excites at 486-575 nm.

Emits at 568-590 nm.

REAGENT PREPARATION AND CONTENTS

WARNING: These reagents contain 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 which explosive conditions may develop. If skin or eye contact occurs, wash excessively with water.

COULTER CLONE MslgG1 or MslgG1-FITC:

Reconstitute as described in the COULTER CLONE Monoclonal Antibody Procedures for Immunofluorescence Cell Surface Staining of Mononuclear Cell Preparations and Whole Blood Samples (PN 4235141).

The final concentration of nonantibody reagents when reconstituted is 0.2% BSA (MslgG1) or 0.2% gelatin (MslgG1-FITC), 0.01 M potassium phosphate, 0.15 M NaCl, and 0.1% NaN₃.

COULTER CLONE MslgG1-RD1: No reconstitution necessary. The concentration of nonantibody reagents in 0.5 mL (1 vial) is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, and 0.1% NaN₃ and stabilizers.

STORAGE AND STABILITY

1. Unreconstituted lyophilized reagents may be stored at 2-8°C for 5 years from date of manufacture.
2. Storage conditions of reconstituted stock solution:
Reconstituted using the Reconstitution Procedure and stored at 0-20°C 6 months
Reconstituted using the Reconstitution Procedure and stored at 2-8°C 6 months
Reconstituted and stored using the Freezing Procedure at -70°C 1 year
3. Liquid reagent may be stored at 2-8°C for 24 months from date of manufacture.
4. If all of a reconstituted reagent is not to be used within six (6) months, follow the Freezing Procedure. Refer to the COULTER CLONE Monoclonal Antibody Procedures for Immunofluorescence Cell Surface Staining of Mononuclear Cell Preparations and Whole Blood Samples (PN 4235141).
5. Avoid repeated freeze/thaw cycles. This will denature the antibody protein.
6. Do not store in a self-defrosting freezer.
7. Do not expose reagents to strong light during storage or incubation.
8. All reagents should be brought to 20-25°C prior to use.

EVIDENCE OF DETERIORATION

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

*Normal Appearance of Reagents

Purified antibody: lyophilized - white plug
reconstituted - clear colorless liquid
FITC - labeled: lyophilized - yellow-orange plug
reconstituted - clear yellow-orange liquid
RD1 - labeled: clear pink to red liquid

SELECTED REFERENCES

1. ASHI Standards for Flow Cytometry Laboratories: 1987. ASHI Quarterly, 11 (1).
2. Landay A, Auer R, Duque R, Green W, Harvath L, Hurley A, Jackson A, Muirhead K, Nicholson J and Renner P: 1989. Clinical Applications of Flow Cytometry: Quality Assurance and Immunophenotyping of Peripheral Blood Lymphocytes. NCCLS Document H42-P 9 (13): 782-785.
3. Flow Cytometry Inspection Checklist: Fall 1988. College of American Pathologists, Commission on Laboratory Accreditation, p 9.

PRODUCT AVAILABILITY

COULTER CLONE MslgG1:
Coultter PN 6602870 - 25 tests (0.5 mL)
Coultter PN 6602872 - 100 tests (0.5 mL)

COULTER CLONE MslgG1-FITC:
Coultter PN 6602926 - 25 tests (0.5 mL)
Coultter PN 6602928 - 100 tests (0.5 mL)

COULTER CLONE MslgG1-RD1:
Coultter PN 6602882 - 25 tests (0.5 mL)
Coultter PN 6602884 - 100 tests (0.5 mL)
RD1 is licensed under patent 4,520,110.

For additional information, call 1 800-526-7694.

TRADEMARKS

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