



	CLONE 1	CLONE 2
Specificity	Non Applicable	Non Applicable
Clone	7T4-1F5	7T4-1F5
Hybridoma	NS-1 x BALB/c	NS-1 x BALB/c
Immunogen	Non Applicable	Non Applicable
Ig Chain	IgG2a	IgG2a
Species	Mouse	Mouse
Source	Conditioned media	Conditioned media
Purification	Affinity chromatography	Affinity chromatography
Fluorescence	Excites at 468-509 nm / Emits at 504-541 nm	Excites at 486-580 nm / Emits at 568-590 nm
Conjugation	FITC (Fluorescein isothiocyanate)	RD1 (Phycoerythrin)
Molar Ratio	FITC/Protein: 3-10	RD1/ Protein: 0.5-1.5

ISOTYPIC CONTROL

For In Vitro Diagnostic Use

INTENDED USE

COULTER CLONE MslgG2a Isotypic Control Reagents are labeled with a single fluorochrome: FITC or RD1. These products are intended for use as quality control reagents to monitor the levels of nonspecific antibody binding in cell surface staining procedures which use COULTER CLONE monoclonal antibody reagents of the mouse IgG2a subclass, conjugated to FITC or RD1.

COULTER CLONE MslgG2a-FITC and MslgG2a-RD1 are intended "For In Vitro Diagnostic Use" when used with COULTER CLONE monoclonal antibody reagents labeled "For In Vitro Diagnostic Use." All other uses are "For Research Use Only. Not For Use In Diagnostic Procedures."

ANTIBODY SPECIFICITY

The MslgG2a antibody is used to monitor the level of nonspecific staining in cell staining procedures which use antibodies of the mouse IgG2a subclass, conjugated to FITC or RD1.¹⁻³

REAGENT

COULTER CLONE MslgG2a-FITC
PN 6602906 - 100 tests (0.5 mL)
OR

COULTER CLONE MslgG2a-RD1
PN 6602888 - 100 tests (0.5 mL)

CLONE: 7T4-1F5 was derived from the hybridization of mouse NS-1 cells with spleen cells from BALB/c mice.

Ig CHAIN: Mouse IgG2a heavy and kappa light chains

SOURCE: Conditioned media

PURIFICATION: Affinity chromatography

CONJUGATION: MslgG2a-FITC (Fluorescein isothiocyanate)
MslgG2a-RD1 (Phycoerythrin)

MOLAR RATIO: FITC/protein 3-10
RD1/protein 0.5-1.5

FLUORESCENCE:

FITC (Green) Excites at 468-509 nm
Emits at 504-541 nm

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

REAGENT CONTENTS

MslgG2a-FITC: The final concentration of nonantibody reagents when reconstituted is 0.2% gelatin, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN₃.

MslgG2a-RD1: The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN₃ and stabilizers.

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 reagent beyond the expiration date on the vial label.
- Minimize exposure of reagent to light during storage or incubation.
- Avoid microbial contamination of reagent or erroneous results may occur.
- Do not freeze the MslgG2a-RD1 reagent.
- Use Good Laboratory Practices (GLP) when handling this reagent.
- Harmful if swallowed.
- After contact with skin, wash immediately with plenty of water.

STORAGE CONDITIONS AND STABILITY

Unopened liquid or 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 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

Applies to the reconstituted MslgG2a-FITC reagent.

MATERIALS REQUIRED BUT NOT SUPPLIED:

PBS - Phosphate Buffered Saline (pH=7.2)

PN 6603369

PBS containing 2% heat-inactivated fetal or new born 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 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.

- 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 Reagents

FITC labeled: Lyophilized-yellow-orange plug
Reconstituted-clear, yellow-orange liquid

RD1 labeled: Clear, pink to red liquid

REAGENT PREPARATION

Reconstitute the lyophilized COULTER CLONE MslgG2a-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. The reagent working solution* is prepared as follows (volume listed is on a per test basis):

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

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

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

No preparation is necessary for COULTER CLONE MslgG2a-RD1. This COULTER CLONE reagent is used directly from the vial.

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

USAGE

This reagent is for use with standard flow cytometry methodologies using whole blood lysis or mononuclear cell preparation techniques. Refer to the COULTER CLONE monoclonal antibody reagent package insert for instructions on how to use this control reagent.

SELECTED RESEARCH REFERENCES

1. ASHI Standards For Clinical Flow Cytometry and Cell Surface Phenotyping Laboratories. 1987. ASHI Quarterly 11(1).
2. National Committee For Clinical Laboratory Standards: Clinical Applications of Flow Cytometry: Quality Assurance and Immunophenotyping of Peripheral Blood lymphocytes; Tentative Guideline. 1992. NCCLS Document H42-T, pp. 12, 13, 37, 38.
3. Flow Cytometry Inspection Checklist. Fall 1988. College of American Pathologists, Commission on Laboratory Accreditation, p. 9.

PRODUCT AVAILABILITY

COULTER CLONE MslgG2a-FITC
PN 6602906 - 100 tests (0.5 mL)
OR

COULTER CLONE MslgG2a-RD1
PN 6602888 - 100 tests (0.5 mL)

RD1 is licensed under patent 4,520,110.

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

TRADEMARKS

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