COULTER® CLONE®
MsIgG,
MsIgG-FITC,
MsIgG-RD1

REF **6602398 - 100 tests**
REF **6602431 - 100 tests**
REF **6603482 - 100 tests**

PN 4235256-H

	CLONE 1	CLONE 2	CLONE 3
Specificity	Non Applicable	Non Applicable	Non Applicable
Clone	Non Applicable	Non Applicable	Non Applicable
Hybridoma	Non Applicable	Non Applicable	Non Applicable
Immunogen	Non Applicable	Non Applicable	Non Applicable
Ig Chain	IgG1, IgG2a, IgG2b, IgG3	IgG1, IgG2a, IgG2b, IgG3	IgG1, IgG2a, IgG2b, IgG3
Species	Mouse	Mouse	Mouse
Source	Mouse serum	Mouse serum	Mouse serum
Purification	Affinity chromatography	Affinity chromatography	Affinity 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: 3-10	RD1/Protein: 0.5-1.5

ISOTYPIC CONTROL

For Research Use Only.
Not for use in diagnostic procedures.

ANTIBODY SPECIFICITY

The MsIgG antibody is used to monitor the level of nonspecific staining in cell staining procedures which use antibodies of the mouse IgG subclass, purified or conjugated to FITC or RD1.

NOTE: MsIgG-RD1 is for use only with standard flow cytometry methodologies.

REAGENT

COULTER CLONE MsIgG
PN 6602398 - 100 tests (0.5 mL)
OR
COULTER CLONE MsIgG-FITC
PN 6602431 - 100 tests (0.5 mL)
OR
COULTER CLONE MsIgG-RD1
PN 6603482 - 100 tests (0.5 mL)

Ig CHAIN:	Mouse IgG1, IgG2a, IgG2b, IgG3
SOURCE:	Mouse serum
PURIFICATION:	Affinity chromatography
CONJUGATION:	MsIgG-None MsIgG-FITC (Fluorescein isothiocyanate) MsIgG-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

The final concentration of nonantibody reagents when reconstituted is 0.2% BSA (MsIgG) or 0.2% gelatin (MsIgG-FITC), 0.01 M potassium phosphate, 0.15 M NaCl and 0.1% NaN_3.

The concentration of nonantibody reagents in 0.5 mL MsIgG-RD1 is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN_3 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 reagents beyond the expiration date on the vial labels.
5. Minimize exposure of reagents 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 these reagents.
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.

Reconstituted stock solution of lyophilized reagents are 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 reconstituted stock solution (1 test*) to 100 µL PBS with 2% FCS**.
   * These may be frozen in multiple test volume aliquots.
   **This yields 2X of 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 these reagents*, or any major variation in values obtained 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:	Lyophilized-white plug Reconstituted-clear colorless liquid
FITC labeled:	Lyophilized-yellow-orange plug Reconstituted-clear yellow-green liquid
RD1 labeled:	Clear pink to red liquid

REAGENT PREPARATION

Reconstitute the lyophilized COULTER CLONE MsIgG or MsIgG-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 MsIgG-RD1. The 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 fluorescence microscopy methodologies.

PRODUCT AVAILABILITY

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PN 6602431 - 100 tests (0.5 mL)
OR
COULTER CLONE MsIgG-RD1
PN 6603482 - 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

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