

**CYTO-STAT®/
COULTER CLONE®
I3-RD1**

REF 6604366 - 50 tests

PN 4236108-E



ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

The I3 antibody recognizes a nonpolymorphic epitope of the HLA-D (DR, DP, DQ) or MHC class II antigens. The antigen is a heterodimer composed of α and β polypeptides with molecular weights of 34 and 29 kD, respectively.¹ It is expressed on human monocytes, macrophages, B lymphocytes, and activated T lymphocytes, as well as many early progenitor cells. It is negative on resting T lymphocytes, granulocytes, erythrocytes and platelets.¹ I3 recognizes all HLA-D gene products and is therefore useful in detecting cells which may be variable in their expression of HLA-DR, DP or DQ.²

REAGENT

CYTO-STAT/COULTER CLONE I3-RD1
Monoclonal Antibody
PN 6604366 - 0.5 mL

CLONE: 9-49 was derived from the hybridization of mouse NS-1 myeloma cells with spleen cells from BALB/c mice immunized with human monocytes.¹

Ig CHAIN: Mouse IgG2a heavy chain and kappa light chains.

SOURCE: Ascites fluid

PURIFICATION: Affinity chromatography

CONJUGATION: I3-RD1 (Phycoerythrin)

MOLAR RATIO: RD1/protein 0.5-1.5

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

REAGENT CONTENTS

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% Na₂S 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. Do not use antibody beyond the expiration date on label.

3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
5. Minimize exposure to light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might 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

This reagent is stable to the expiration date on the vial label when stored at 2-8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of the reagent (clear, colorless to pinkish liquid) or any major variation in values obtained for control samples might indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No reconstitution is necessary. This CYTO-STAT/COULTER CLONE monoclonal antibody may be 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.

The use of I3-RD1 is not intended for enumeration of HLA-D (DR, DP, DQ) positive cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. Todd RF, III, Meuer SC, Romain PL, and Schlossman SF:1984. A monoclonal antibody that blocks class II histocompatibility-related immune interactions. *Human Immunology* 10:23.
2. Pesando JM and Graf L: 1986. Differential expression of HLA-DR, -DQ, and -DP antigens on malignant B cells. *J Immunol.* 136: 4311.

PRODUCT AVAILABILITY

CYTO-STAT/COULTER CLONE I3-RD1
PN 6604366 - 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

Beckman Coulter logo, COULTER CLONE, and CYTO-STAT are trademarks of Beckman Coulter, Inc.



Beckman Coulter, Inc.
4300 N. Harbor Blvd.
Fullerton, CA 92835
www.beckmancoulter.com

Printed in USA
Made in USA

©2004 Beckman Coulter, Inc.
All Rights Reserved.