

## COULTER CLONE®

### B2-RD1

REF 6603196 - 100 tests

PN 4235195-L



	B2-RD1
Specificity	CD21
Clone	B120
Hybridoma	NS-1 x BALB/c
Immunogen	Human lymphoma cells derived from a patient with B cell lymphoma <sup>3</sup>
Ig Chain	IgM
Species	Mouse
Source	Ascites fluid
Purification	Ion exchange chromatography
Fluorescence	Excites at 486-580 nm / Emits at 568-590 nm
Conjugation	RD1 (Phycoerythrin)
Molar Ratio	RD1/Protein: 0.5-1.5
Scatter Detection	Forward and/or side

## Monoclonal Antibody

### For Research Use Only.

Not for use in diagnostic procedures.

### ANTIBODY SPECIFICITY

B2 antibody recognizes the CD21 antigen, a 145 kD surface glycoprotein which is a type 2 complement receptor (CR2) as well as the receptor for Epstein-Barr virus.<sup>1</sup> It is expressed on mature B cells, although it is lost upon cellular activation.<sup>1</sup> It is also expressed on follicular dendritic cells in the mantle zone.<sup>1</sup> CD21 is part of a regulatory complex on the surface of B cells that also includes CD19 and CD81.<sup>1,2</sup>

### REAGENT

See table above.

### REAGENT CONTENTS

The antibody concentration in B2-RD1 is 1.25 µg/test.

The concentration of nonantibody reagents in B2-RD1 is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% NaN<sub>3</sub> 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 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 reagent 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

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 this reagent\*, or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

#### \*Normal Appearance of Reagent

RD1 labeled: Clear, pink to red liquid

### REAGENT PREPARATION

No preparation is necessary for COULTER CLONE B2-RD1. This COULTER CLONE reagent is used 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 flow cytometry methodologies.

The use of B2-RD1 in this reagent is not intended for enumeration of CD21 cells in clinical diagnostic applications.

### SELECTED RESEARCH REFERENCES

1. Tedder TF, Zhou L-J and Engel P. 1994. The CD19/CD21 signal transduction complex of B lymphocytes. *Immunology Today* 15: 437.
2. Tedder TF, Inaoki M and Sato S. 1997. The CD19/CD21 complex regulates signal transduction thresholds governing humoral immunity and autoimmunity. *Immunity* 6: 107.
3. Reinherz EL, Haynes BF, Nadler LM and Berstein ID, eds. 1984. *Leukocyte Typing II*. New York, NY: Springer Verlag.

### PRODUCT AVAILABILITY

COULTER CLONE B2-RD1 PN 6603196 - 100 tests (0.5 mL)

RD1 is licensed under patent 4,520,110.

For additional information or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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