

**CYTO-STAT®/
COULTER CLONE®
IL-2R1 RD1**

REF 6604422 - 50 tests

PN 4236116-E



ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

ANTIBODY SPECIFICITY

The IL-2R1 antibody recognizes the CD25 antigen, also known as the Tac antigen, a glycoprotein with a molecular weight of 55 kD.^{1,2} This antigen is the alpha subunit of the receptor for interleukin 2 (IL-2) and, in isolation, has a moderate affinity for the cytokine.² In association with the beta and gamma subunits, CD25 antigen forms the high affinity receptor for IL-2.^{1,2} It is present on mitogen or antigen activated T cells and on T cell clones. It is also present on activated B cell and monocytes but is not expressed on thymocytes and resting T cells.¹⁻³ The IL-2R1 antibody inhibits the ability of IL-2 reactive cells to proliferate in response to purified IL-2.¹

REAGENT

CYTO-STAT/COULTER CLONE IL-2R1-RD1
Monoclonal Antibody
PN 6604422 - 0.5 mL

CLONE: 1HT44H3 was derived from the hybridization of mouse NS-1 myeloma cells with spleen cells from BALB/c mice immunized with cells of an IL-2 dependent T cell Clone, AC3.^{1,4}

Ig CHAIN: Mouse IgG2a heavy chain and kappa light chains

SOURCE: Ascites fluid

PURIFICATION: Affinity chromatography

CONJUGATION: IL-2R1-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% Na₃ 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 IL-2R1 is not intended for enumeration of CD25 positive cells in clinical diagnostic applications.

SELECTED RESEARCH REFERENCES

1. Fox DA, Hussey RE, Fitzgerald KA, Benussan A, Daley JF, Schlossman SF, and Reinherz EL: 1985. Activation of human thymocytes via the 50 kD T11 sheep erythrocyte binding protein induces the expression of interleukin 2 receptor on both T3+ and T3- populations. *J Immunol* 134: 330.
2. Minami Y, Kono T, Miyazaki T, and Taniguchi T: 1993. The IL-2 receptor complex: Its structure, function, and target genes. *Ann Rev Immunol* 11: 245-267.
3. Knapp W, Dörken B, Gilks WR, Rieber EP, Schmidt RE, Stein H, and von dem Borne AEGK, eds: 1989 *Leukocyte Typing IV*. Oxford University Press, Oxford, UK.
4. Reinherz EL, Haynes BF, Nadler LM and Berstein ID, eds: 1986. *Leukocyte Typing II*. Springer-Verlag, New York, NY.

PRODUCT AVAILABILITY

CYTO-STAT/COULTER CLONE IL-2R1-RD1
PN 6604422 - 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.

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