

**CYTO-STAT®/  
COULTER CLONE®  
KC56 (T-200) - FITC**

**REF** 6604104 - 50 tests

PN 4236046-D



### ANALYTE SPECIFIC REAGENT

Analytical and performance characteristics are not established.

### ANTIBODY SPECIFICITY

KC56 recognizes members of the CD45 family of pan leukocyte antigens with molecular weights of 180, 190, 210 and 220 kD.<sup>1-3</sup> It is also known as the leukocyte common antigen (LCA). CD45 antigen is expressed on every type of hematopoietic cell except mature erythrocytes and their immediate progenitors.<sup>4,5</sup> It has not been detected in differentiated non hematopoietic tissue.<sup>4,7</sup>

### REAGENT

CYTO-STAT/COULTER CLONE  
KC56 (T-200)-FITC  
PN 6604104 - 50 tests (0.5 mL)

**CLONE:** DW124-5-2 (KC56 (T-200)) was derived from the hybridization of mouse Sp2/0-AG14 myeloma cells with spleen cells from BALB/c mice immunized with a derivative of the CEM cell line.<sup>8</sup>

**Ig CHAIN:** Mouse IgG1 heavy and kappa light chains

**SOURCE:** Conditioned media

**PURIFICATION:** Affinity chromatography

**CONJUGATION:** KC56 (T-200)-FITC (Fluorescein isothiocyanate)

**MOLAR RATIO:** FITC/protein 3-10

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

### REAGENT CONTENTS

The concentration of nonantibody reagents is 0.2% BSA, 0.01 M potassium phosphate, 0.15 M NaCl, 0.1% Na<sub>2</sub>S<sub>2</sub>O<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 reagents 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 (clear colorless to yellowish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

### REAGENT PREPARATION

No preparation is necessary. This CYTO-STAT/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.

The use of KC56 (T-200)-FITC in this reagent is not intended for enumeration of CD45 in clinical diagnostic applications.

### SELECTED RESEARCH REFERENCES

1. McMichael AJ, Beverley PCL, Cobbold S, Crumpton MJ, Gilks W, Gotch FM, Hogg N, Horton M, Ling N, MacLennan ICM, Mason DY, Milstein C, Spiegelhalter D and Waldman H, eds. 1987. Leukocyte Typing III. Oxford University Press, Oxford, UK. pp. 796-801, Appendix E.
2. Newman W, Targan SR and Fast LD. 1984. Immunobiological and immunochemical aspects of the T-200 family of glycoproteins. Mol Imm 21(11):1113-1121.
3. Fabre JW and Williams AF. 1977. Quantitative serological analysis of a rabbit anti-rat lymphocyte serum and preliminary biochemical characterisation of the major antigen recognised. Transplantation 23:4.
4. Coffman RL and Weissman IL. 1981. B220: A B cell-specific member of the T200 glycoprotein family. Nature 289:681-683.
5. Dalchau R and Fabre JW. 1980. Identification with a monoclonal antibody of a predominantly B lymphocyte-specific determinant of the human leukocyte common antigen. J Exp Med 153:753-765.
6. Omary MB, Trowbridge IS and Battifora HA. 1980. Human homologue of murine T200 glycoprotein. J Exp Med 152:842-852.
7. Dalchau R, Kirkley J and Fabre JW. 1981. Monoclonal antibody to a human leukocyte-specific membrane glycoprotein probably homologous to the leukocyte-common (L-C) antigen of the rat. Eur J Immunol 10:737-744.
8. Schlossman SF, Boumsell L, Gilks W, Harlan JM, Kishimoto T, Morimoto C, Ritz J, Shaw S, Silverstein R, Springer R, Tedder TF and Todd RF, eds. 1995. Leukocyte Typing V. Oxford University Press, Oxford, UK.

### PRODUCT AVAILABILITY

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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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