



## Mouse Anti-Human CD5

| Cat. No. | Form                             | Quantity  |
|----------|----------------------------------|-----------|
| 9526-01  | Purified (UNLB) Antibody         | 0.1 mg    |
| 9526-02  | Fluorescein (FITC) Conjugate     | 100 tests |
| 9526-08  | Biotin (BIOT) Conjugate          | 0.1 mg    |
| 9526-09  | *R-phycoerythrin (R-PE)          | 100 tests |
| 9526-11  | Allophycocyanin (APC) Conjugate  | 100 tests |
| 9526-13  | **Spectral Red™ (SPRD) Conjugate | 100 tests |

### DESCRIPTION

**Clone** UCHT2  
**Ig Isotype** Mouse IgG<sub>1</sub>  
**Specificity** Human CD5

CD5, a member of the scavenger receptor superfamily of cell surface receptors, is a type I transmembrane glycoprotein whose ligand is CD72. It is expressed on most thymocytes, all mature T cells, and a subset of B cells (B-1 cells). CD5 plays a role in regulation of T cell activation and signaling.<sup>1-5</sup>

### RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)
- Western blotting
- Immunoprecipitation

### CHARACTERIZATION

To insure lot to lot consistency, each batch of product is tested by flow cytometry to conform to the characteristics of a standard reference reagent.

### WORKING DILUTIONS

|                        |                           |                              |
|------------------------|---------------------------|------------------------------|
| <b>Flow Cytometry:</b> | Purified (UNLB) antibody  | ≤ 1 µg/10 <sup>6</sup> cells |
|                        | Fluorescein conjugate     | 2 µL/10 <sup>6</sup> cells   |
|                        | Biotin conjugate          | ≤ 1 µg/10 <sup>6</sup> cells |
|                        | R-phycoerythrin conjugate | 2 µL/10 <sup>6</sup> cells   |
|                        | Allophycocyanin conjugate | 2 µL/10 <sup>6</sup> cells   |
|                        | Spectral Red™ conjugate   | 2 µL/10 <sup>6</sup> cells   |

**Other Applications:** Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

***For Research Use Only. Not for Diagnostic or Therapeutic Use.***

## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.1 mg purified immunoglobulin in 0.2 mL of phosphate buffered saline containing 0.1% PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 0.2 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.1 mL in 0.2 mL of phosphate buffered saline containing 0.1% PBS/NaN<sub>3</sub>. Store at 2-8°C..
- The R-phycoerythrin (R-PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 0.2 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red™ (SPRD) conjugate is supplied as 100 tests in 0.2 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## WARNING

Reagents contain sodium azide which is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

## REFERENCES

1. McMichael, A.K., P.C.L. Beverly, S. Cobbold, M.J. Crumpton, W. Gilks, F.M. Gotch, N. Hogg, M. Horton, N. Ling, I.C.M. MacLennan, D.Y. Mason, C. Milstein, D. Spiegelhalter, and H. Waldmann, eds. 1987. *Leukocyte Typing III: White Cell Differentiation Antigens*, Oxford University Press, Oxford.
2. Knapp, W., B. Dorken, W.R. Gllks, E.P. Rieber, R.E. Schmidt, H. Stein, A.E.G.K. Von dem Borne, eds. 1989. *Leukocyte Typing IV: White Cell Differentiation Antigens*, Oxford University Press, Oxford.
3. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. *The Leukocyte Antigens Facts Book, 2nd Edition*, CD5 Section, Academic Press, New York, p. 143.
4. Lydyard, P.M., A. Lamour, L.E. MacKenzie, C. Jamin, R.A. Mageed, and P. Youinou. 1993. *Immunol. Lett.* 38:159.
5. Lankester, A.C., G.M. van Schijndel, J.L. Cordell, C.J. van Noesel, and R.A. van Lier. 1994. *Eur. J. Immunol.* 24:812.

\*US Patent No. 4,520,110; European Patent No. 76,695; and Canadian Patent No. 1,179,942.

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