

Mouse Anti-Human CD4

| Cat. No. | Form | Quantity |
|----------|--|-----------|
| 9522-01 | Purified (UNLB) Antibody | 0.1 mg |
| 9522-02 | Fluorescein (FITC) Conjugate | 100 tests |
| 9522-08 | Biotin (BIOT) Conjugate | 100 tests |
| 9522-09 | R-phycoerythrin (R-PE) Conjugate | 100 tests |
| 9522-10 | R-phycoerythrin-Texas Red [®] (R-PE-TXRD) Conjugate | 100 tests |
| 9522-11 | Allophycocyanin (APC) Conjugate | 100 tests |
| 9522-13 | *Spectral Red [™] (SPRD) Conjugate | 100 tests |
| 9522-14 | Low Endotoxin, Azide-Free (LE/AF) | 0.5 mg |
| 9522-15 | **Cyanine 5 (CY [™] 5) Conjugate | 100 tests |
| 9522-16 | **R-phycoerythrin-Cyanine 5.5 (R-PE-CY [™] 5.5) Conjugate | 100 tests |
| 9522-17 | **R-phycoerythrin-Cyanine 7 (R-PE-CY [™] 7) Conjugate | 100 tests |
| 9522-19 | ** Allophycocyanin -Cyanine 7 (APC-CY [™] 7) Conjugate | 100 tests |
| 9522-31 | ***Alexa Fluor 647 (AF647) Conjugate | 100 tests |

DESCRIPTION

| | |
|--------------------|------------------------|
| Clone | RFT-4g |
| Ig Isotype | Mouse IgG ₁ |
| Specificity | Human CD4 |

CD4 is a 59 kDa type I transmembrane glycoprotein and a member of the Ig-SF of cell surface receptors. It is expressed predominantly on the “helper/inducer” subpopulation of mature T lymphocytes, and on monocytes and macrophages. Domains 1 and 2 bind to MHC Class II antigens, while domains 3 and 4 may be involved in cis interactions with the CD3/TCR complex. CD4 functions as an accessory molecule in the recognition of foreign antigens in association with MHC Class II antigens by T cells.¹⁻⁶

RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)
- 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

| | | |
|------------------------|--|------------------------------|
| Flow Cytometry: | Purified antibody | ≤ 1 µg/10 ⁶ cells |
| | Fluorescein conjugate | 10 µL/10 ⁶ cells |
| | Biotin conjugate | 10 µL/10 ⁶ cells |
| | R-phycoerythrin conjugate | 10 µL/10 ⁶ cells |
| | R-phycoerythrin conjugate-Texas Red [®] | 10 µL/10 ⁶ cells |
| | Allophycocyanin conjugate | 10 µL/10 ⁶ cells |
| | Spectral Red [™] conjugate | 10 µL/10 ⁶ cells |
| | Cyanine 5 conjugate | 10 µL/10 ⁶ cells |
| | R-PE/CY 5.5 and R-PE/CY7 conjugate | 10 µL/10 ⁶ cells |
| | Alexa Fluor 647 (AF647) conjugate | 10 µL/10 ⁶ cells |
| | Allophycocyanin -Cyanine 7 conjugate | 10 µL/10 ⁶ 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 of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC), Alexa Fluor 647 (AF647), and Cyanine 5 (CYTM5) conjugates are supplied as 100 tests in 1.0 mL PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (R-PE) and Allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral RedTM (SPRD), R-phycoerythrin -Texas Red[®] (R-PE-TXRD), R-phycoerythrin-Cyanine 5.5 (R-PE-CYTM5.5), R-phycoerythrin-Cyanine 7 (R-PE-CYTM7) and Allophycocyanin-Cyanine 7 (APC-CYTM7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°C immediately upon receipt. Each reagent is stable for the period shown on the bottle 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

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