



Mouse Anti-Human CD8

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
9536-01	Purified (UNLB) Antibody	0.1 mg
9536-02	Fluorescein (FITC) Conjugate	100 tests
9536-08	Biotin (BIOT) Conjugate	100 tests
9536-09	R-phycoerythrin (R-PE) Conjugate	100 tests
9536-10	R-phycoerythrin-Texas Red [®] (R-PE-TXRD) Conjugate	100 tests
9536-11	Allophycocyanin (APC) Conjugate	100 tests
9536-13	*Spectral Red [™] (SPRD) Conjugate	100 tests
9536-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9536-15	**Cyanine 5 (CY [™] 5) Conjugate	100 tests
9536-16	**R-phycoerythrin-Cyanine 5.5 (R-PE-CY [™] 5.5) Conjugate	100 tests
9536-17	**R-phycoerythrin-Cyanine 7 (R-PE-CY [™] 7) Conjugate	100 tests
9536-18	** Allophycocyanin –Cyanine 5.5 (APC-CY [™] 5.5) Conjugate	100 tests
9536-19	** Allophycocyanin -Cyanine 7 (APC-CY [™] 7) Conjugate	100 tests
9536-30	**Alexa Fluor 488 (AF488) Conjugate	100 tests
9536-31	**Alexa Fluor 647 (AF647) Conjugate	100 tests

DESCRIPTION

Clone RFT-8
Ig Isotype Mouse IgG₁
Specificity Human CD8

CD8 is a 32 kDa transmembrane glycoprotein expressed as either a CD8 $\alpha\alpha$ homodimer or CD8 $\alpha\beta$ heterodimer. It is expressed on the “cytotoxic/suppressor” subpopulation of peripheral T cells. CD8 functions primarily as a coreceptor with MHC Class I-restricted TCR’s in antigen recognition.¹⁻²

RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)

CHARACTERIZATION

To insure acceptable performance, 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
	PE/CY5.5 and PE/CY7 conjugates	10 µL/10 ⁶ cells
	APC/CY5.5 and APC/CY7 conjugates	10 µL/10 ⁶ cells
	AF488 and AF647 conjugates	10 µL/10 ⁶ cells

Other Applications: Since applications vary, investigators are advised to determine the optimum working dilution of the product that is appropriate for a specific use.

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), Cyanine 5 (CYTM5), Alexa Fluor 488 (AF488), and Alexa Fluor 647 (AF647) 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 7 (R-PE-CYTM7), R-phycoerythrin-Cyanine 5.5 (R-PE-CYTM5.5), Allophycocyanin-Cyanine 5.5 (APC-CYTM5.5), 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 0.2 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

1. 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*, CD8 Section, Academic Press, New York, p. 149.
2. Zamoyska, R. 1994. *Immunity* 1:243.

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