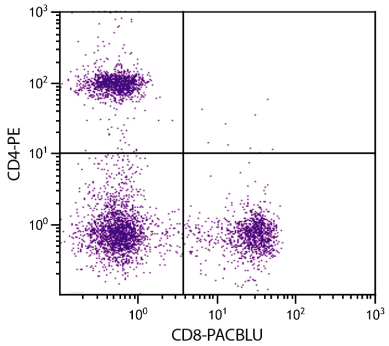
SouthernBiotech

Mouse Anti-Human CD8

Cat. No.	Format	Size
9536-01	Purified (UNLB)	0.1 mg
9536-02	Fluorescein (FITC)	100 tests
9536-02S	Fluorescein (FITC)	25 tests
9536-08	Biotin (BIOT)	100 tests
9536-09	R-phycoerythrin (PE)	100 tests
9536-09S	R-phycoerythrin (PE)	25 tests
9536-10	R-phycoerythrin-Texas Red® (PE/TXRD)	100 tests
9536-11	Allophycocyanin (APC)	100 tests
9536-11S	Allophycocyanin (APC)	25 tests
9536-13	Spectral Red® (SPRD)	100 tests
9536-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9536-15	Cyanine 5 (CY5)	100 tests
9536-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	100 tests
9536-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	100 tests
9536-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	100 tests
9536-19	Allophycocyanin-Cyanine 7 (APC/CY7)	100 tests
9536-26	Pacific Blue™ (PACBLU)	100 tests
9536-27	Alexa Fluor® 700 (AF700)	100 tests
9536-30	Alexa Fluor® 488 (AF488)	100 tests
9536-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD8-PACBLU (SB Cat. No. 9536-26) and Mouse Anti-Human CD4-PE (SB Cat. No. 9522-09).

Overview

Clone	RFT8
Isotype	Mouse (BALB/c) $IgG_1\kappa$
Immunogen	Thymocyte and E-rosetted lymphocytes
Specificity	Human CD8; Mr 33 kDa
Alternate Name(s)	Leu-2, Lyt2, Lyt3, Tp32, T8
Workshop	N/A

Description

CD8 is a 33 kDa transmembrane glycoprotein expressed as either a CD8αα homodimer or CD8αβ 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.

Applications

FC – Quality tested [1,9]
IHC-FS – Reported in literature [2-5]
IHC-PS – Reported in literature [6]
ICC – Reported in literature [7]
Depletion – Reported in literature [8]

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10^6 cells
	FITC, BIOT, PE, PE/TXRD, APC, SPRD, CY5, PE/CY5.5, PE/CY7, APC/CY5.5, APC/CY7, PACBLU, AF488, AF647, and AF700 conjugates	10 µL/10^6 cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

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

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA
Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768
Email: info@southernbiotech.com • **Website:** www.southernbiotech.com

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD), R-phycoerythrin-Texas Red® (PE/TXRD), R-phycoerythrin-Cyanine 7 (PE/CY7), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), allophycocyanin-Cyanine 5.5 (APC/CY5.5), and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN_3 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. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Cyanine 5 (CY5), Pacific Blue™ (PACBLU), Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), and Alexa Fluor® 700 (AF700) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Bofill M, Janossy G, Lee CA, MacDonald-Burns D, Phillips AN, Sabin C, et al. Laboratory control values for CD4 and CD8 T lymphocytes. Implications for HIV-1 diagnosis. Clin Exp Immunol. 1992;88:243-52. (Immunogen, FC)
2. Bofill M, Gombert W, Borthwick NJ, Akbar AN, McLaughlin JE, Lee CA, et al. Presence of $CD3^+CD8^+Bcl\text{-}2^{low}$ lymphocytes undergoing apoptosis and activated macrophages in lymph nodes of HIV-1^+ patients. Am J Pathol. 1995;146:1542-55. (IHC-FS)
3. Gay FW, Drye TJ, Dick GW, Esiri MM. The application of multifactorial cluster analysis in the staging of plaques in early multiple sclerosis. Identification and characterization of the primary demyelinating lesion. Brain. 1997;120:1461-83. (IHC-FS)
4. Hufert FT, van Lunzen J, Janossy G, Bertram S, Schmitz J, Haller O, et al. Germinal centre $CD4^+$ T cells are an important site of HIV replication in vivo. AIDS. 1997;11:849-57. (IHC-FS)
5. Howie D, Spencer J, DeLord D, Pitzalis C, Wathen NC, Dogan A, et al. Extrathymic T cell differentiation in the human intestine early in life. J Immunol. 1998;161:5862-72. (IHC-FS)
6. Cruickshank SM, Southgate J, Wyatt JI, Selby PJ, Trejdosiewicz LK. Expression of CD44 on bile ducts in primary sclerosing cholangitis and primary biliary cirrhosis. J Clin Pathol. 1999;52:730-4. (IHC-PS)
7. Burgess R, Hyde K, Maguire PJ, Kelsey PR, Yin JA, Geary CG. Two-colour immunoenzymatic technique using sequential staining by APAAP to evaluate two cell antigens. J Clin Pathol. 1992;45:206-9. (ICC)
8. Wimperis JZ, Gottlieb D, Duncombe AS, Heslop HE, Prentice HG, Brenner MK. Requirements for the adoptive transfer of antibody responses to a priming antigen in man. J Immunol. 1990;144:541-7. (Depletion)
9. Hunter PJ, Nistala K, Jina N, Eddaoudi A, Thomson W, Hubank M, et al. Biologic predictors of extension of oligoarticular juvenile idiopathic arthritis as determined from synovial fluid cellular composition and gene expression. Arthritis Rheum. 2010;62:896-907. (FC)

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA
Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768
Email: info@southernbiotech.com • **Website:** www.southernbiotech.com