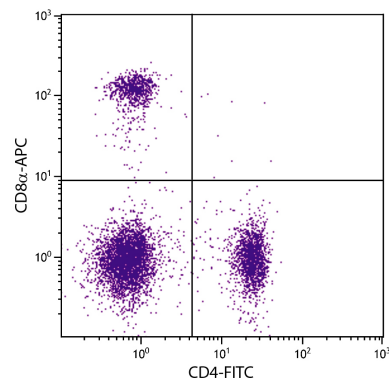




Rat Anti-Mouse CD8 α

Cat. No.	Format	Size
1550-01	Purified (UNLB)	0.5 mg
1550-02	Fluorescein (FITC)	0.5 mg
1550-02S	Fluorescein (FITC)	0.1 mg
1550-08	Biotin (BIOT)	0.5 mg
1550-09	R-phycoerythrin (PE)	0.1 mg
1550-09L	R-phycoerythrin (PE)	0.2 mg
1550-10	R-phycoerythrin-Texas Red [®] (PE/TXRD)	0.1 mg
1550-11	Allophycocyanin (APC)	0.1 mg
1550-13	Spectral Red [®] (SPRD)	0.1 mg
1550-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1550-15	Cyanine 5 (CY5)	0.1 mg
1550-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
1550-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1550-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	0.1 mg
1550-19	Allophycocyanin-Cyanine 7 (APC/CY7)	0.1 mg
1550-26	Pacific Blue [™] (PACBLU)	0.1 mg
1550-27	Alexa Fluor [®] 700 (AF700)	0.1 mg
1550-30	Alexa Fluor [®] 488 (AF488)	0.1 mg
1550-31	Alexa Fluor [®] 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD8 α -APC (SB Cat. No. 1550-11) and Rat Anti-Mouse CD4-FITC (SB Cat. No. 1540-02).

Overview

Clone	53-6.7
Isotype	Rat (LOU/Ws1/M) IgG _{2a} K
Immunogen	Spleen cells or thymocyte membranes
Specificity	Mouse CD8 α ; Mr 32-34 kDa
Alternate Name(s)	Ly-2, Lyt-2, Ly-35, Ly-B, T8

Description

In the mouse, CD8 exists in two forms – (i) a CD8 heterodimer composed of an α chain (CD8 α) and a β chain (CD8 β); and (ii) a homodimer of two α chains. The heterodimer is found on the surface of essentially all thymocytes and the “suppressor/cytotoxic” subpopulation of mature T lymphocytes. Subsets of intestinal intraepithelial lymphocytes express CD8 α without CD8 β . It has been suggested that CD8 α ⁺ β ⁻ T cells mature extrathymically, while development of the CD8 α ⁺ β ⁺ population of T cells is thymus-dependent. CD8 acts as a coreceptor with MHC Class I-restricted T cell receptors in antigen recognition and positive selection of MHC class I-restricted CD8⁺ T cells. *In vivo* and *in vitro* treatment with the 53-6.7 monoclonal antibody effectively depletes CD8 α ⁺ cells. The 53-6.7 monoclonal antibody also blocks allogeneic help specific for class I MHC antigens and T cell responses to IL-2.

Applications

FC – Quality tested ^{1,6,7,9-15}
 IHC-FS – Reported in literature ²⁻⁵
 ICC – Reported in literature ⁷
 IP – Reported in literature ^{1,6}
 Depletion – Reported in literature ⁸
 Block – Reported in literature ⁶

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 2 μ g/10 ⁶ cells
	FITC and BIOT conjugates	≤ 2 μ g/10 ⁶ cells
	AF488 conjugate	≤ 1 μ g/10 ⁶ cells
	PE, APC, SPRD, PE/TXRD, CY5, PE/CY5.5, PE/CY7, APC/CY5.5, APC/CY7, PACBLU, AF647, and AF700 conjugates	≤ 0.2 μ g/10 ⁶ cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μ L.

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.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 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 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red[®] (SPRD), R-phycoerythrin-Cyanine 7 (PE/CY7), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), allophycocyanin-Cyanine 5.5 (APC/CY5.5), allophycocyanin-Cyanine 7 (APC/CY7), and R-phycoerythrin-Texas Red[®] (PE/TXRD) conjugates are supplied as 0.1 mg 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 of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Alexa Fluor[®] 488 (AF488), Alexa Fluor[®] 647 (AF647), Alexa Fluor[®] 700 (AF700), and Pacific Blue[™] (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃. 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 (M)SDS.

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Cy[®] is a registered trademark of GE Healthcare.

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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